STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510





FACSIMILE TRANSMISSION

Date:	October 28, 2002				
To:	Fred Micke/Verneta Simon	USEPA		Fax#: 312-353-9176	
	Timothy Ramsey	Piper Rudnick		Fax#: 312-630-7350	
	Haroid Holmberg	Kerr-McGee		Fax#: 405-270-4112	
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax#: 630-231-3990	
	Thomas Pabian/TerryMcKay	Caprì Capital		Fax #: 312-335-9365	
Pages	being transmitted, incl. Cov	er: 15			
CC:		Fax No.:			
From	John Esser	Phone:	847-279-2500		
Re:	341 East Ohio Street Site				
Urge	nt For Signature For Revie	w Please Comment/Reply	As Requested	Original to Follow	

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STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153

voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

October 28, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 133

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the two week period of 10/07/02 to 10/18/02 and the work expected to be performed after 10/21/02.

Work Completed During 10/07/02 - 10/18/02

- Laboratory analyses of the verification sample taken at grid coordinates H-6 was performed by the analytical laboratory. The laboratory also provided their documentation of the detection limits for two previous analyses. The laboratory information was forwarded to USEPA for review and approval. USEPA sign-off was received on 10/16/02. Figure 3 depicts the locations where USEPA sign-off of final pesticide verification samples has been received.
- 2. Area and personal air monitoring results for 9/30/02 through 10/01/02 are included in Attachment 3. No exceedances of allowable limits were measured. Air monitoring was discontinued on 10/01/02.
- 3. STS prepared a summary of the proposed site restoration and dust mitigation measures for TRS.
- 4. STS transmitted a letter to USEPA on October 8, 2002 providing additional requested information concerning STS's proposed modification to the Removal Action Work Plan, dated 09/27/02. The modification relates to a concrete foundation wall encountered near the north property line and concrete pile caps encountered below the urban fill in Area 4. Written approval of the modification was received from USEPA on 10/15/02.
- 5. STS transmitted a letter to USEPA on October 17, 2002 providing a description of site access control and dust mitigation measures that the TRS plans to implement at the site.
- 6. The excavation for pesticide removal and sampling was backfilled.

Remaining Work

1. Implement site access control and dust mitigation measures following USEPA review and approval.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 133 October 28, 2002 Page 2

2. Prepare Removal Action Documentation Report. We understand that the documentation report is due to USEPA 60 days following receipt of notice from USEPA that the field work is complete.

STS proposes to discontinue weekly status reporting with this report. Future status reports will be transmitted following completion of remaining work tasks noted above. Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

/Senior Project Engineer

Attachments: Attachment 1 Site Map (Only Figure 3 - Pesticide Verification Area)

Attachment 2 Pesticide Pre-Verification/Verification Test Data

Attachment 3 Air Monitoring Results for 09/30/02 to 10/01/02

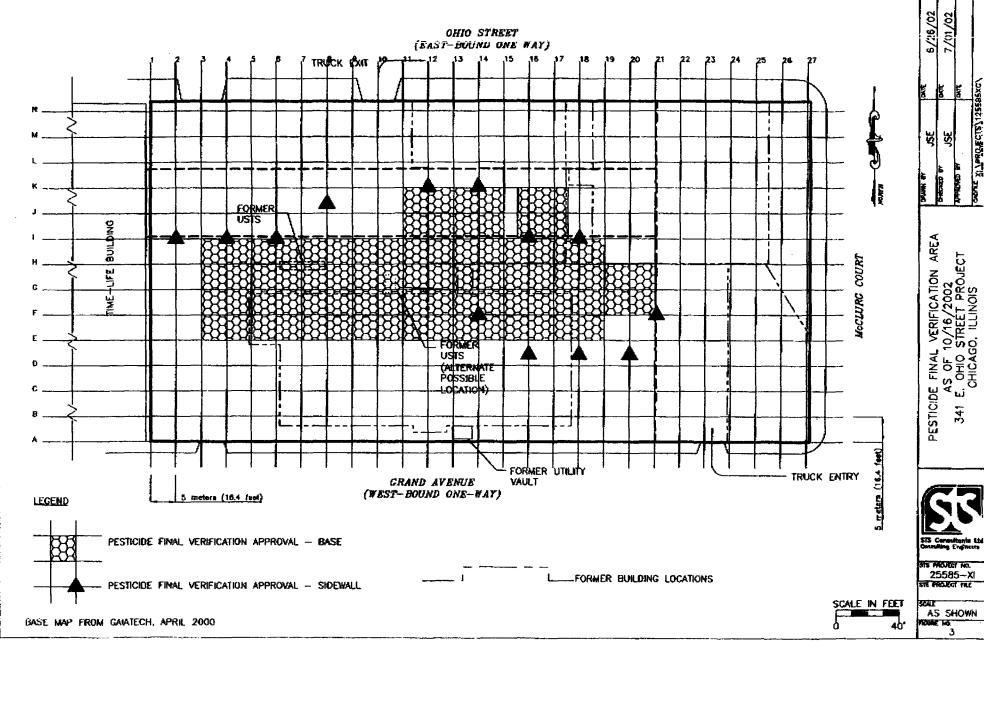
cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

ATTACHMENT 1

Site Maps

OCT-28-2002 11:11



0CT-28-2002 11:12

STS PARAULIT NO. 25585-XI STE PROJECT FILE

AS SHOWN

ATTACHMENT 2

Pesticide Pre-Verification/Verification Test Data

84.7 1.49

Pesticide Results Summary 341 East Ohio Street (Revised 10/16/02)

	l"		Chlordane			Laboratory	Constilluent Co	ncentration Res	ille ⁴ (mg/kg)		
Sample Location ¹	Sample Date	Sample Type ²	immuncassay Field Kit ^a (mg/kg)	Aldrin	alpha BHC	Chiordane (tech)	Dieldrin	Heptechlor	Heplachior Epoxide	Lindane (gamma BHC)	4,4°-DOY
F-4	07/26/2002	base	0.534	ND(0.038)	NO(0.038)	MD(0.38)	NO(0.036)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
F-6	07/26/2002	base	0.437	NO(0.038)	ND(0.038)	ND(0.38)	NO(0.038)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.038)
F-10	07/28/2002	base	0.068	ND(0.036)	ND(0.036)	ND(0.36)	ND(0.036)	NO(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
F-8	07/31/2002	base	0.005	ND(0.036)	ND(0.036)	ND(0.36)	ND(0.036)	NO(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
H-6	07/31/2002	base	1.48	ND(0.039)	ND(0.039)	ND(0.39)	ND(0.038)	0.36	NO(0.039)	ND(0.039)	ND(0.039)
H- 10	07/31/2002	base	0.157	ND(0.021)	ND(0.021)°	ND(0.42)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)	ND(0.042)
H-12	07/31/2002	base	0.804	ND(0.039)	ND(0.039)	ND(0.39)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
H-4	08/01/2002	base	0.004	ND(0.035)	ND(0.035)	ND(0.35)	ND(0.035)	ND(0.035)	ND(0.035)	NO(0.035)	ND(0.035)
H-6	08/01/2002	base	0.009	ND(0.035)	ND(0.035)	NO(0.35)	ND(0.035)	ND(0.035)	ND(0.035)	NO(0.035)	ND(0.035)
1-2	08/02/2002	sidewall	0.009	ND(0.020)	NO(0.020) ^c	ND(0.41)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
14	08/02/2002	sidewall	0.246	ND(0.040)	ND(0.040)	ND(0.40)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
1-6	08/02/2002	sidewall	0,246	ND(0.021)	ND(0.021)*	ND(0.42)	ND(0.042)	0.049	ND(0.042)	ND(0.042)	ND(0.042)
H-6(2)*	08/13/2002	base	0.041	0.049	ND(0.094)	13	0.051 3	1.4	ND(0.370)	ND(0.094)	C.029 J
H-14	08/14/2002	base	0.0	ND(0.0018)	ND(0.0018)	ND(0.018)	ND(0.0018)	ND(0.0019)	0.0007 J	ND(0.0018)	ND(0.0018)
F-16	08/20/2002	base	0.007	NO(0.002)	0.00059 J	ND(0.020)	ND(0.002)	ND(0.002)	ND(0.0078)	ND(0.002)	ND(0.002)
F-18	08/20/2002	base	0.084	0.001 J	ND(0.0021)	NO(0.021)	ND(0.0021)	ND(0.0021)	ND(0.0081)	ND(0.0021)	ND(0.0021)
F-21	08/20/2002	sidewell	0.874	ND(0.0021)	ND(0.0021)	ND(0.021)	ND(0.0021)	ND(0.0021)	0.0052 J	NO(0.0021)	ND(0.0021)
F-14	08/20/2002	sidewall	0.719	ND(0.002)	ND(0.002)	ND(0.020)	ND(0.002)	NO(0.002)	0.0046 J	ND(0.002)	ND(0.002)
1-16	08/20/2002	sidewall	0.486	ND(0.002)	ND(0.002)	0.068	0.005	0.0037	NO(0.0079)	ND(0.002)	ND(0.002)
1-18	08/20/2002	sidewall	0.008	ND(0.0018)	ND(0.0018)	ND(0.018)	ND(0.0018)	ND(0.0018)	ND(0.0018)	ND(0.0018)	ND(0.0018)
H-16	08/23/2002	base	0.001	ND(0.0019)	ND(0.0019)	ND(0.019)	ND(0.0019)	ND(0.0019)	NO(0.0019)	ND(0.0019)	ND(0.0019)
H-18	08/23/2002	base	0.038	ND(0.0097)	ND(0.0087)	ND(0.097)	ND(0.0097)	0.012	0.058 J	ND(0.0097)	ND(0.0097)
DQ.5-18	06/23/2002	vertical	0.019	0 00082 J	0.00076 J	ND(0.022)	0.00081 J	0.0015 J	ND(0.0086)	ND(0.0022)	NO(0.0022)
D0.5-18	08/23/2002	vertical	0.05	NO(0.021)	ND(0.021)	ND(0.210)	ND(0.021)	0.031	ND(0.043)°	NO(0.021)	ND(0.021)
D0.5-20	08/23/2002	vertical	0.734	0.016 J	0.0082 J	ND(0.230)	ND(0.023)	0.019 J	0.055 J	ND(0.023)	0.0085 J
JØ.5-8	08/23/2002	vertical	0.009	ND(0.022)	ND(0.022)	ND(0.220)	ND(0.022)	ND(0.022)	ND(0.022)	ND(0.022)	ND(0.022)
F-12	08/29/2002	base	0.006	0.00047 J	ND(0.002)	ND(0.020)	0.0011 J	0.0035	ND(0.0079)	ND(0.002)	0.00043 J
F-14	08/29/2002	base	0.022	ND(0.002)	ND(0.002)	ND(0.020)	NO(0.002)	ND(0.002)	NO(0.0077)	ND(0.002)	ND(0.002)
G-20	08/29/2002	base	0.012	ND(0.0018)	ND(0.0018)	ND(0.018)	ND(0.0018)	NO(0.0018)	NO(0.0072)	ND(0.0018)	ND(0.0018)
J-16.6	08/29/2002	base	0.002	ND(0.0018)	ND(0.0018)	ND(0.018)	ND(0.0018)	ND(0.0018)	NO(0.0073)	ND(0.0018)	ND(0.0018)
J-12	09/04/2002	base	9.002	ND(0.0018)	ND(0.0018)	ND(0.018)	ND(0.0018)	ND(0.0018)	ND(0.0072)	ND(0.0018)	ND(0.0018)
J-14	09/04/2002	base	0.002	ND(0.0019)	ND(0.0019)	NO(0.019)	ND(0.0019)	ND(0.0019)	ND(0.0074)	ND(0.0019)	ND(0.0019)
K-12	09/04/2002	vertical	0.001	ND(0.020)	ND(0.020)	ND(0.200)	ND(0.020)	ND(0.020)	ND(0.039) ⁶	ND(0.020)	ND(0.020)
K-14	09/04/2002	vertical	0.013	ND(0.019)	ND(0.019)	ND(0.190)	ND(0.019)	NO(0.019)	ND(0.038)°	ND(0.019)	ND(0.019)
H-4(3) ⁴	10/03/2002	base	ND-0.039*	ND(0.0021)	ND(0.0021)	ND(0.021)	ND(0.0021)	0.0075	ND(0.0021)	ND(0.0021)	ND(0.0021)
	Clean-up Of	ojective" (mg/kg	*	9.64	0.1	1,8	0,04	8.1	0.07	0,6	2

Notes: Shaded values indicate an exceedance of clean-up objective

- 1- Sample location is the center point of the 10 X 10 meter grid for base of excavation samples.
- The location designation for vertical samples indicates the actual sample location.
- 2 Base Composite sample from the base of the excavation (five grab samples from 100 m2 area). Sidewall - Vertical composite of five grab samples from excavation side wall.
- 3 The chlordene immunoessay kill does not differentiate between chilordene and other cyclodienes such as heptachlor, refer to method documentation for information on the relative sensitivities.
- 4 Severn Trent Services (STL), Earth City, Missouri. (Leb qualifiers: ND not detected, J estimated value)
- 5 Bold and italic sample results indicate an exceedance of the clean-up objective (35 IAC 742, Appendix B, Table A).
- a Resample following excevation of additional sol.
- b Depth below previous excavation.
- c Reporting limit for the constituent lowered to listed value after review of the chromatographic data by the laboratory.
- d Sample collected following the excavation of an additional 1 foot of soil (i.e., approximately 12 feet below original asphalt grade).
- e Three individual immunoassay tests were run on a series of geoprobe samples to determine depth of excavation necessary to remove contaminants.

USEPA Signoff Summary 341 East Ohio Street, Chicago, iL

Grīd Location	Sample Type
F-4-VP	base
F-6-VP	base
F-10-VP	base
F-8	base
H-10	base
H-12	base
H-4	base
H-8	base
1-2	sidewall
1-4	sidewall
I-6	sidewall
	F-4-VP F-6-VP F-10-VP F-8 H-10 H-12 H-4 H-8 1-2

PA Verification Signature Date	Grid Location	Sample Type
09/06/2002	H-14	base
09/06/2002	F-16	base
09/06/2002	F-18	base
09/06/2002	F-21	sidewall
09/06/2002	F-14	sidewall
09/06/2002	I-16	sidewall
09/06/2002	I-18	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
09/04/2002	H-16	base
09/04/2002	H-18	base
09/04/2002	D0.5-16	sidewall
09/04/2002	D0.5-18	sidewali
09/04/2002	D0.5-20	sidewall
09/04/2002	J0.5-8	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
09/17/2002	F-12	base
09/17/2002	F-14	base
09/17/2002	G-20	base

EPA Verification Signature Date	Grid Location	Sample Type
09/17/2002	J-16.5	base
09/17/2002	j-12	base
09/17/2002	J-14	base

USEPA Signoff Summary 341 East Ohio Street, Chicago, IL

Detection Limits revised and resubmitted 10/16/02	K-12	sidewall
Detection Limits revised and resubmitted 10/16/02	K-14	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
10/16/2002	K-12	sidewall
10/16/2002	K-14	sidewall
10/16/2002	H-6(3)	base

ATTACHMENT 3

Air Monitoring Results

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report

341 East Ohio Street Project- Chicago, IL

North Monitor		Week #18 9/30/02 - 1	0/4/02	(High Volume)	
	Time Sampled	Effluent Concentration	Concentration x		
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments	
9/30/02	490	0.00E+00	0.00E+00		
10/1/02	475	1.13E-15	5.37E-13	Air Monitoring Completed	
10/2/02	0	0.00E+00	0.00€+00		
10/3/02	0	0.00€+00	0.00E+00		
10/4/02	l o	0.00E+00	0.00E+00		
	965	1 19F-15	5 37F-13		

 $C_{evo} = \Sigma T_{-i} C_i$ Time Weighted Weekly ΣT. Effluent Concentration (North) = 5.56E-16 uCi/ml Percentage of Release Limit of = 13.91% Eq A.9 NUREG 1400 4E-15uCi/ml

South Monitor

SOUUI MU				
	Time Sampled	Efficient Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
9/30/02	490	0.00E+00	0.00E+00	
10/1/02	478	0.00E+00	0.00E+00	Air Monitoring Completed
10/2/02	0	0.00E+00	0.00E+00	
10/3/02	0	0.00€+00	0.00E+00	
10/4/02	0	0.00E+00	0. 00E+ 00	
	968	0.00E+00	0.00E+00	

 $C_{avo} = \sum T_{ei} C_i$ Time Weighted Weekly Effluent Concentration (South) = 0.00E+00 uCi/ml ΣT. Percentage of Release Limit of = 0.00% Eq A.9 NUREG 1400 4E-15uCi/ml

Fast Monitor

East MUNICI								
	Time Sampled	Effluent Concentration	Concentration x					
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments				
9/30/02	473	0.00E+00	0.00E+00					
10/1/02	474	0.00E+00	9,00E+00	Air Monitoring Completed				
10/2/02	0	0.00€+00	0.002+00					
10/3/02	0	0.00 E +00	0.00+300.0					
10/4/02	0	0.00E+00	0.00년+00					
	947	0.00E+00	0.00E+00					

Time Weighted Weekly $C_{mq} = \sum_{i} T_{i} C_{i}$ Effluent Concentration (East) = 0.00E+00 uCi/ml ΣT_{ϵ} Percentage of Release Limit of = 0.00% Eq A.9 NUREG 1400 4E-15uCVml

10/14/02 MON 11:06 FAX 815 485 4433

STAN HUBER CONSL

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
9/30/02	491	6.28E-16	3.08E-13	
10/1/02	473	0.00E+00	0.00E+00	Air Monitoring Completed
10/2/02	0	0.00E+0D	0.00E+00	
10/3/02	0	0,00E+00	0.00E+00	
10/4/02		0.00E+00	0.00E+00	1
	964	6.28E-16	3.08E-13	

ΣT. Eq A.9 NUREG 1400 Time Weighted Weekly Effluent Concentration (West) = 3.20E-16 uCi/mi Percentage of Release Limit of = 8.00%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 18

September 30, 2002 - October 4, 2002

				totai	cubic	sample	day after analysis		four day analysis					% of Limit			
Sample	date	start	stop	time	f#min	volume	date	groes	bkg	net	Concentration	dele	groes	bkg	met	Concentration	4.00E-15
ID.	belqmae	time	time	sempled	(CFM)	arsalyzed	anelyzed	counts	counts	cpm	in uCl/ml	anelyzed	counts	counte	cpm	in uClàni	uCi/eni
N1080	9/30/02	7:59am	4:09pm	490	65	2.67E+07	10/1/02	187	18	5.63333	7.73E-14	10/7/02	16	17	0	0.00E+00	0.00%
S1080	9/30/02	8:00am	4:10pm	490	50	2.43E+07	10/1/02	190	18	5.73333	8.66E-14	10/7/02	17	17	G	0.00E+00	0.00%
E1080	B/30/02	8:16am	4:09pm	473	52	2.44E+07	10/1/02	161	18	4.76667	7.17E-14	10/7/02	16	17	0	0.00E+00	0.00%
W1080	9/30/02	8:01am	4:12pm	491	40	1.95E+07	10/1/02	94	18	2.53333	4.77E-14	10/7/02	18	17	0.033	6.28E-16	15.70%
N1081	10/1/02	8:02am	3:57pm	475	48	2.17E+07	10/2/02	381	16	12.1667	2.08E-13	10/7/02	19	17	0.067	1.13E-16	28.22%
S1081	10/1/02	8:01am	3:59pm	478	48	2.27E+07	10/2/02	362	16	11.5333	1.88E-13	10/7/02	16	17	0	0.00E+00	0.00%
E1081	10/1/02	8:04em	3:58pm	474	40	1.88E+07	10/2/02	328	16	10.4	2.03E-13	10/7/02	17	17	0	0.00E+00	0.00%
W1081	10/1/02	8:04am	3:57pm	473	41	1.92E+07	10/2/02	357	16	11.3667	2.17E-13	10/7/02	17	17	0	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis)

Week 18 September 30 - October 4, 2002

341	East	Ohio	Street	Project	-	Chicago,	ł
-----	------	------	--------	----------------	---	----------	---

	All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)										
				Flow	Total	Total		Gross	Bkg		Sample
Date				Rate		Sample					Concentration
Collected	Name	Sample 10	PAM#	(ipm)	Sampled	Volume (mt)	Date	(30 min)	(30 min)	CPM	(uCl/ml)
000000	A management to the service of the s	DANIALA	000 004	0.6	440	4000000	4044600	4.5	4 4	0.00	A 66# . 66

	Date Collected	Name	Sample 10	PAM#	Rate (lipm)	Time Sampled	Sample Volume (mi)	Analysis Dale		Counts (30 min)	Net CPM	Concentration (uCl/ml)
	9/30/02	Antoine Harvey	PAM1115	008-234	2.5	412	1030000	10/1/02	15	17	0.00	0.00E+00
1	9/30/02	Jerry Krane	PAM1116	002-574	2.5	355	887500	10/1/02	17	17	0.00	0.002+00
ļ												
												I
			•									
-												
												1
												4

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information.

	14016. Fix ballings on this paye were all aryzet also 4 days to allow the their datapater decay											
				Flow	Total	Total		Gross	Bkg		elqma8	% of
Date				Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration	DAC
Collected	Name	Sample 10	PAM#	(lpm)	Sampled	Volume (ml)	Date	(30 min)	(30 min)	CPM	(uCl/ml)	
9/26/02	Roger Petty	PAM1112	002-675	2.5	335	837500	10/1/02	18	18	00.0	0.00E+00	0.00%
		-										

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153 voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

October 2, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

Post-It® Fax Note 7671	Date 10/15/02 pages / [6
To Verata Simon	From S Korndy
Co./Dept.	^{co.} 575
Phone #	Phone # 847-279-2448
Fax 312-253-9176	

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 125

STS Consultants, Ltd.

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the two week period of 9/16/02 to 9/20/02 and 9/23/02 to 9/27/02, and the work expected during the week of 9/30/02 to 10/4/02. For location reference, site maps showing gridlines are included as Attachment 1.

Work Completed During 9/16/02 - 9/20/02

- Completed 16th week of removal action field activities.
- 2. Radiological removal action activities took place in Area 2, Area 3, and Area 4. Activities in Area 2 consisted of Phase II screening/excavation in 18-inch lifts. Activities in Area 3 included Phase II screening/excavation in 18-inch lifts. Activities in Area 4 included pavement removal, Phase I screening and Phase II screening/excavation in 18-inch lifts. Radiological material excavation, handling, and disposal were performed in accordance with the Work Plan. Radiological material loading and offsite transportation are summarized below:

a. Radiological material excavation and loading

	Previous Total	Week of 9/16/02 - 9/20/02	Total To-Date
Containers	265	5	270

- Verification surveys were performed following removal of radiological-impacted soils and at the base
 of the fill following Phase II excavation. The following areas were successfully verified and approved
 by USEPA during the week:
 - a. Successful Phase I/Phase II Exclusion Zone verification areas

	Verification Date	Grid Line	Grid Line
Ī	9/20/02	l - L	17.5 - 19

b. Successful Phase II Final verification areas

Verification Date	Grid Line	Grid Line
9/20/02	L-N	11 - 21
9/20/02	1 - L	17 - 21
1		

Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zone from Phase II.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 125 October 2, 2002 Page 2

Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

- 3. Subsurface concrete foundation elements were removed in Area 2 and Area 3. The foundation elements were broken, cleaned, and frisked before temporary stockpiling and loading for off-site disposal.
- 4. USEPA sign-off was received for the following pesticide verification areas:

Verification Signoff Date	Grid Location	Verification Sample Type
9/17/02	F-12	Base
9/17/02	F-14	Base
9/17/02	G-20	Base
9/17/02	J-16.5	Base
9/17/02	J-12	Base
9/17/02	J-14	Base

Figure 3 depicts the locations where USEPA sign-off of final pesticide verification samples has been received.

5. Area and personal air monitoring were performed at the site. Results for the week of 9/9/02 to 9/13/02 and 9/16/02 to 9/20/02 are included in Attachment 3. No exceedances of allowable limits were measured.

Work Completed During 9/23/02 - 9/27/02

- 1. Completed 17th week of removal action field activities.
- 2. Radiological removal action activities took place in Area 4. Activities included pavement removal, Phase I screening and Phase II screening/excavation in 18-inch lifts. Radiological material excavation, handling, and disposal were performed in accordance with the Work Plan. Radiological material loading and offsite transportation are summarized below:

a. Radiological material excavation and loading:

,	Previous Total	Week of 9/23/02 - 9/27/02	Total To-Date
Containers	270	10	280

- 3. Verification surveys were performed following removal of radiological-impacted soils and at the base of the fill following Phase II excavation. The following areas were successfully verified and approved by USEPA last week:
 - a. Successful Phase I/Phase II Exclusion Zone verification areas: None for the week.

b. Successful Phase II Final verification areas:

Verification Date	Grid Line	Grid Line
9/27/02	D-J	24.5 - 27
9/27/02	J - N	21 - 27

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> Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zone from Phase II. Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

- 4. Some miscellaneous subsurface concrete was removed in Area 4. The foundation elements were broken, cleaned, and frisked before temporary stockpilling or loading for off-site disposal. On 9/24/02, STS transmitted a letter to USEPA that describes certain subsurface concrete foundation elements in Area 3 and Area 4 that will remain in-place. These foundation elements bear on natural sand and will not adversely affect the removal action. USEPA representatives in the field already approved the proposal to leave the foundation elements in place. STS's letter describes the elements left in place and requests USEPA's written confirmation of its oral approval.
- No USEPA sign-off was received for pesticide verification areas during the past week. Figure 3 depicts the locations where USEPA sign-off of final pesticide verification samples have been received.
- 6. Area and personal air monitoring were performed at the site. Results for the week of 9/23/02 to 9/27/02 will be included in the next report.

Work Planned for 9/30/02 to 10/4/02

- 1. Complete radiological screening and removal activities at the site.
- Complete final radiological verification surveys of remaining areas.
- 3. Complete pesticide-impacted soil excavation and re-verification soil sampling at grid location H-6.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

S. Esser, P.E., P.G. lor Project Engineer

Attachments: Attachment 1 Site Maps

Attachment 2 Pesticide Pre-Verification/Verification Test Data

Attachment 3 Air Monitoring Results for 9/9/02 to 9/13/02 and 9/16/02 to 9/20/02

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

ATTACHMENT 2

Pesticide Pre-Verification/Verification Test Data

EPA Verification Signature Date	Grid Location	Sample Type		
08/20/2002	F-4-VP	base		
08/20/2002	F-6-VP	base		
08/20/2002	F-10-VP	base		
08/20/2002	F-8	base		
08/20/2002	H-10	base		
08/20/2002	H-12	base		
08/20/2002	H-4	base		
08/20/2002	H-8	base		
08/20/2002	1-2	sidewall		
08/20/2002	1-4	sidewall		
08/20/2002	1-6	sidewall		
74.24.204		J.JOWAII		

PA Verification Signature Date	Grid Location	Sample Type		
09/06/2002	H-14	base		
09/06/2002	F-16	. base		
09/06/2002	F-18	base		
09/06/2002	F-21	sidewall		
09/06/2002	F-14	sidewall		
09/06/2002	1-16	sidewall		
09/06/2002	I-18	sidewall		

EPA Verification Signature Date	Grid Location	Sample Type
09/04/2002	H-16	base
09/04/2002	H-18	base
09/04/2002	D0.5-16	sidewall
09/04/2002	D0.5-18	sidewall
09/04/2002	D0.5-20	sidewall
09/04/2002	J0.5-8	sidewall

EPA Verification Signature Date	Grid Location	Sample Type		
09/17/2002	F-12	base		
09/17/2002	F-14	base		
09/17/2002	G-20	base		

A Verification Signature Date	Grid Location	Sample Type		
09/17/2002	J-16.5	base		
09/17/2002	J-12	base		
09/17/2002	J-14	base		
pending	K-12	sidewall		
pending	K-14	sidewall		

ATTACHMENT 3

Air Monitoring Results

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Mar	itor	Week #15 9/9/02-9/13	<u> </u>	(High Volume)
1		Effluent Concentration in uCi/ml	Sample Min / Day	Comments
9/9/02	507	1.11E-15	5. 63 E-13	
9/10/02	443	1.11E-15	4.92E-13	
9/11/02	506	0.00€+00	0.00€+00	
9/12/02	553	0.00E+00	0.00€+00	
9/13/02	520	0.00E+00	0.00€+00	· · · · · · · · · · · · · · · · · · ·
	2528	2.22E-15	1.05E-12	

 $C_{exp} \times \Sigma T_{ex} C_i$

ΣT.

Time Weighted Weakly

Effluent Concentration (North) =

4.17E-16 uCi/ml

Eq A.P NUREG 1400

Percentage of Release Limit of =

10.43%

4E-15uComi

South Manitor

SOUGH WO	THE CO			
	, , ,	Effluent Concentration		
Date	(minutes)		Sample Min / Day	Comments
8/9/02	507	0.00€+00	0.00E+00	
9/10/02	427	0.00億+00	0.00E+00	
9/11/02	499	0, 00 E+00	0.00E+00	Į
9/12/02	55 2	0.00E+00	0.00E+00	
9/13/02	515	0.00E+00	0.00E+00	
	2500	0.000+00	0.00E+00	

Can = ETaLC

ΣT.

Time Weighted Weekly

Effluent Concentration (South) =

0.00E+00 uCi/mi 0.00%

Eq A.9 NUREG 1400

Percentage of Release Limit of =

4E-15uÇİMI

East Monitor

TOTAL VALVAN				
	Time Sampled	Efficient Concentration	Concentration x	
Date	(minutes)	in uCi/mi	Sample Min / Day	Comments
9/9/02	512	0.00E+00	0.00E+00	
9/10/02	457	1.38E-15	6.31E-13	!
9/11/02	491	5.02E-16	2.46E-13	
9/12/02	554	1.19E-15	6.59E-13	
9/13/02	516	0.00E+00	0,00€+00	
	2530	3.07⋶-15	1.54E-12	

 $C_{ext} = \sum_{i} T_{ext} C_{i}$

ΣT

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (East) =

6.07E-16 uCVml

Percentage of Release Limit of =

15.18%

4E-15uCi/mi

West Monitor

, , <u>, , , , , , , , , , , , , , , , , </u>		I A secondario	Commented	
1	in a sambled	Effluent Concentration		
Date	(minutes)	in uCl/mi	Sample Min / Day	Comments
9/9/02	513	0.000+00	0.00E+00	
9/10/02	455	0.00≝+00	0.00E+00	
9/11/02	494	0.00E+00	0.00E+00	
9/12/02	549	8.64E-16	4.74E-18	
9/13/02		0.00€+00	0.00E+00	
	2527	8.64E-16	4.74E-13	

ΣT,

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (West) = 1.88E-16 uCI/ml

Parcentage of Release Limit of = 4.60%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 15 September 8, 2082 - September 13, 2002

fier x	10			20hear	IIIVel .	, 2002 -	sopraiu	Jel 14	, 200	4							
			}	total	ouble	semple		day	after a	naiysin			for	r day a	nalysia		% of Limit
Gample	defe	start	atop	time	tti min	90iume	delle	gross	bkg	ing	Concentration	date	gross	blig	ivel	Concentration	4,00E-15
#D	belgnas	time	time	esempled	(CFM)	aconfrond	analyzed	coupie	countr	optn	in eClimit	analyzad	counts	counts	cpm	in uCihil	uCilmi
N1085	9/9/02	7:58am	4:25pm	507	44	2.21E+07		152	17	4.6	7.48E-14	9/13/02	19	17	0.087	1.11E-15	27.54%
81065	9/9/02	6:08em	4:35pm	507	40	201E+07	9/10/02	126	17	3.63333	6.63E-14	9/13/02	17	17	0	0.00E+00	0.00%
E1085	9/9/02	8:00em	4:32pm	512	47	2.38E+07	9/10/02	135	17	3.93333	8.06E-14	9/13/02	15	17	Q	0.00E+00	0.00%
W1065	9/8/02	8:04em	4:37pm	513	36	1.63E+07	8/10/02	125	17	3.6	7.21E-14	9/13/02	17	17	0	0.00E+00	0.00%
N1088	9/10/02	0:12am	3:35pm	443	50	2.20E+07	9/11/02	188	17	5.7	9.62E-14	9/16/02	20	16	0.067	1.11E-18	27.84%
61068	9/18/02	B:35em	3:42pm	421	41	1.74E+07	9/11/02	199	17	6.00007	1.28E-13	9/10/02	18	16	0	0.005+00	0.00%
E1066	9/10/02	0:03am	3:40pm	457	39	1.77E+07	9/11/02	267	17	8.33333	1.73E-13	9/16/02	20	18	0.087	1.385-15	34.80%
W1000	9/10/02	8:10em	3:45pm	458	45	2.07E+07	9/11/02	165	17	4.93323	8.72E-14	9/18/02	17	18	0	0.00E+00	0.00%
N1067	9/11/02	0:00mm	4:25pm	505	50	2.60E+07	8/12/02	70	10	1.7	2.49E-14	9/16/02	18	18	. 0	0.00E+00	0.00%
81067	9/11/02	8:00em	4:19pm	496	48	2.37E+07	9/12/02	64	19	1.5	2.32E-14	9/16/02	15	18	0	0.00E+00	0.00%
E1067	9/11/02	8:10em	4:21pm	406	50	2.43E+07	9/12/02	100	19	2.7	4.07E-14	9/16/02	19	18	0.033	5.02E-16	12.56%
W1087	9/11/02	8:03em	4:17pm	494	48	2.35E+07	9/12/02	65	19	1.53333	2.39E-14	9/16/02	17	18	0	0.00E+00	0.00%
N1008	9/12/02	8:04am	5:17pm	553	35	1.92E+07	9/13/02	70	17	1.76667	3.38E-14	9/17/02	15	16	Q	0.00E+00	8.00%
\$1058	9/12/02	8: 99a m	5:21pm	552	50	2.74E+07	9/13/02	59	17	1.4	1.88E-14	B/17/02	: 16	16	. 0	0.00E+00	0.00%
E1068	9/12/02	8:06am	5:20pm	554	5 6	3.07E+07	9/13/02	67	17	1.66667	1.89E-14	8/17/02	19	16	0.1	1.1 9E -15	29.81%
W1008	9/12/02	B:11em	5: 20p m	549	52	2.89E+07	9/13/02	57	17	1.33333	1.73E-14	9/17/02	18	16	0.067	8.84E-18	21.60%
N1069	9/13/02	8:03am	4:43pm	520	39	2.01E+07	9/16/02	21	18	0.1	1.82E-15	£/18/02	16	18		0.00E+00	0.00%
51 969	0/13/02	8:07am	4:42pm	515	40	2.04E+07	9/15/02	22	18	0.13333	2.39E-15	R/18/02	18	18		0.00E+00	0.00%
E1969	9/13/02	8:05em	4:41pm	618	43	2.20E+07	9/16/02	2 16	18	• 0	0.00E+00	9/18/02	18	18	•	0.0 0E+ 00	0.00%
W1059	9/13/02	6:08em	4:44pm	516	42	2.15E+07	9/16/02	? 1E	16) (0.60E+00	8/18/02	15	18	S	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 15 September 9 - September 13, 2002

*** All PAM's with 8	tevated count	s on day aller	r analysis are recount	ed after 4 days (See Susciso)
Flow	Total	Total	Gross	Bko	Sain

Date Callected		Sample ID	PAM #	Flow Rate (ipm)	Total Time Sampled	Total Sample Volume (mi)	Analysis Date		Bkg Counts (30 min)	CPM	Sample Concentration (uCl/ml)
9/9/02	Roger Petry	PAN1101	002-788	2.5	455	1137500	9/10/02	25	17	0.27	6,02E-14
9/9/02 -	Jerry Krane	PAM1102	002-574	2.5	140	350000	9/10/02	18	17	Q.QD	0.60E+00
9/9/02 (Lindsey Aschim	PAM1103	002-574	2.5				17	17	0.00	0.00E+0
9/13/02 (Roger Petty	PAM1104	002-786	2.5		1042500		18	18	0.00	0.0 0E+ 0
9/13/02 (Indsay Aschim	PAM1105	002-574	2.5				17	18	0.90	0.00E+0

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information. Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Sits - Chicago, IL

Week 15 September 9 - September 13, 2002

Dete Collected	Name	Sample ID		Flow Rate	Total Time	e were analyze Total Sample Votume (mil)	Analysis	Gross	Bkg Counts (30 min)	Net CPM	(nchui) Coucentration Sembis	DAC
9/9/02	Roger Pelly	PAM1101	082-766	2.5	455	1137500	9/13/02	18	17	0.00	0.00E+00	0.00
~		·										

Occupational Bose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCl/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Obio Street Project - Chicago, IL

Week 16 September 16, 2902 - September 20, 2092

AAAAV	10			aghio	107-41	IV, ZVVE	- September 20, 2002										
				total	cubic	SETUDIO		de	after a	adysia			fot	r day a	nalysia	•	% of Limit
Sample	dele	etert	e∮ op	time	Tel min	volume	dete	gross.	biq	शक्ष	Concentration	ciata	District	pla	net	Concentration	4.00E-15
10	belgnas	lime	time	belgnes	(CFM)	enelyand	analysessi	counts	countries	opte	in uCilmi	analyzad	counts	counts	CPEN	in uÇimi	q(Ci/m)
N1070	9/18/02	6:13em	5: 35 pm	562	33	1.84E+07	9/17/02	58	16	1.4	2.79E-14	9/20/02	21	20	0.033	8. 8 5E-16	16.62%
S1070	9/18/02	8:16em	5: 30pm	555	42	2.31E+07	9/17/02	38	16	0.79333	1.16E-14	9/20/02	16	20	0	0.00E+00	0.00%
E1070	9/16/02	8:07mm	5:31pm	584	48	2.58E+07	9/17/02	56	10	1.3	1.76E-14	9/20/02	22	20	0.087	9.11E-16	22.78%
W1070	9/16/02	8:11am	5:34pm	583	42	2.34E+87	9/17/02	58	16	1.33333	2.09E-14	9/20/02	20	20	0	0.00E+00	0.00%
N1071	9/17/02	8:13em	5:50pm	577	37	2.12E+07	9/18/02	191	18	5.78667	9.99E-14	9/23/02	16	18	0	0.00E+60	0.00%
81071	9/17/02	8:11am	5:00pm	529	40	2.10E+07	9/18/02	206	18	0.20067	1.10E-13	9/23/02	18	18	0	0.00E+00	0.00%
E1071	9/17/02	6:07am	6:35pm	568	45	2.63E+07	9/18/02	184	18	5.53333	8.01E-14	R/23/02	19	18	0.033	4.82E-16	12.08%
W1971	8/17/02	8:13am	5: 02 pm	529	37	1.94E+07	9/18/02	161	ខេ	6.43333	1.03E-13	9/23/02	20	18	0.067	1.26E-15	31.50%
N1872	9/16/02	8:15em	5:51pm	576	37	2.11E+07	9/19/02	235	17	7.26667	1.28E-13	9/23/02	17	18	0	0.00E+00	0.00%
61072	9/18/02	8: 9 5em	5:45pm	560	52	2.90E+07	9/19/02	182	17	5.5	8.76E-14	9/23/02	19	18	0.033	4.08E-16	10.22%
E1072	9/18/02	8:14am	5:50pm	5 76	46	2.63E+07	9/19/02	233	17	7.2	1.01E-13	9/23/02	15	18	0	0.00E+00	0.00%
W1072	9/18/02	8:07am	5:40pm	673	61	2.90E+07	9/19/02	130	17	3.79667	4.77E-14	9/23/02	18	18	0	0.00E+90	0.00%
N1073	9/19/02	8:2 2 am	5:45pm	563	42	2.34E+07	9/20/02	167	20	4.56667	7.15E-14	9/24/02	16	16	0.067	1.04E-15	26.08%
81073	9/19/02	8:1 0am	5:43pm	573	42	2.39E+67	9/20/02	186	20	5.63333	8.51E-14	9/24/02	19	16	0.1	1.54E-16	38.43%
E1073	9/19/02	6:20em	6:41pm	561	36	2.17E+07	9/20/02	183	20	5.43933	9.19E-14	9/24/02	14	16	0	0.00€+00	0.80%
W1073	9/19/02	8:15em	6:05pm	590	42	2.46E+07	9/20/02	134	20	3.8	6.87E-14	9/24/02	17	18	0.033	4.99E-16	12.44%
N1074	9/20/07	8:01am	2:12pm	221	48	9.85E+08	9/23/02	24	18	0.2	7.44E-15	9/25/02	18	17	0.093	1.24E-15	31.90%
S1074	9/20/02	2 8:05em	2:05pm	210	56	1.17E+07	9/23/02	21	18	0.1	3.15E-15	8/25/02	16	17	0	0.00E+00	0.00%
E1074	9/20/07	8:02am	2:10pm	218	52	1.12E+07	9/23/02	18	18	0	0.00E+00	9/25/02	17	17	0	0.00E+00	0.00%
W1074	B/20/02	7:58em	2:00pm	212	57	1.20E+07	9/23/02	16	18	. 0	0.00E+00	9/25/02	17	17	0	0. 0 0E+00	0.00%

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL.

North Mor	nitor	Week #16 9/16/02-9/2	10/02	(High Volume)
Date		Efficient Concentration in uCi/mi	Concentration x Sample Min / Day	Comments
9/16/02	The same of the sa	<u> </u>		المتران بالمراج والمتراج والمتران والمتران والمتران والمتران والمتران والمتران والمتران والمتران والمتران
9/17/02			0.00E+00	
9/18/02			0.00E+00	
9/19/02		· .		}
9/20/02	1	•	2.74E-13	Rain Delayed
). ————————————————————————————————————	7400		1 225,12	

Com = IT. C

ΣT.

Effluent Concentration (North) =

Time Weighted Weekly

4.94E-16 uCi/mi

Eq A.9 NUREG 1400

Percentage of Release Limit of =

12.34%

4E-15uCVmi

South Monitor

SOUD! MICH				
	Time Sampled	Effluent Concentration	Concentration x	
Date		in uCl/mi	Sample Min / Day	Comments
9/16/02	555	0.00E+00	0.00E+00	
9/17/02	529	0.00E+00	0.90E+00	
9/18/02	580	4.09E-16	2.375-18	
9/19/02	573	1.548-15	6.82E-13	
9/20/02	210	0.00E+00	0.00€+00	Rain Delayed
	2447	1.95E-15	1.12E-12	

Com = ITUC

ΣT.

Time Weighted Weekly

Efficient Concentration (South) =

4.58E-16 uCl/mi

Eq A.9 NUREG 1400

Percentage of Release Limit of =

11,44%

4E-15uCimi

Feet Manho

Date	Time Sampled (minutes)	Effluent Concentration in uCl/m!	Concentration x Semple Min / Day	Comments
9/16/02	584	9.11E-16	5.14E-13	
9/17/02	568	4.82E-18	2.746-13	
9/18/02	576	0.00£+00	0.00€+00	Ì
9/19/02	561	0.00£+00	0. 00E+ 00	
9/20/02	218	0,00E+00	0.00E+00	Rain Delayed
	2487	4 20E.46	7 RRF_13	

Com = E TaiC

ET.

Time Weighted Weekly

Effluent Concentration (East) =

3.175-15 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

7.92%

4E-15uCVmi

West Monitor

AA BOOK NEW CALL				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uci/mi	Sample Min / Day	Comments
9/15/02	563	0.00E+00	0.00E+00	
9/17/02	529	1.28E-15	6.67E-13	1
9/18/02	573	0,00€+00	0.00E+00	
9/19/02	_		2.94E-13	
9/20/02	ſ		0.00E+00	Rain Delayed
	2467	1.76E-15	9.80€-13	

$C_{avg} = \sum_{i} T_{av} C_i$	
ΣΤ,	
Eq A.9 NUREG 1400	3

Time Weighted Weekly	
Efficient Concentration (West) =	3.89E-16 uCi/mi
Percentage of Release Limit of =	9.73%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 16 September 16, 2902 - September 20, 2002

ARGEL	10			20110		10, 2002	NZ - September 20, 2002										
)		totai	cubic	sample .		đe	after a	nalysis .			fot	ir day a	nalyele	,	Softimit
Sample	deb	etert	etop.	time	ft/ min	volume	diche	gross	piq	राधेर्द	Concentration	date	QF006	bleg .	net	Concentration	4.00E-15
Ю	ancopied	lima	Grade:	belgrass	(CFM)	ensysted	analyseed	counts	OKATÈS	opat	in eCilmi	analyzad	counte	counts	CPEN .	in uCifmi	uCi/mi
N1070	9/16/02	6:13em	5:35pm	562	33	1.84E+07	9/17/02	58	16	1.4	2.79E-14	9/20/02	21	20	0.033	8.85E-16	16.62%
S 1070	9/15/02	8:15em	5: 30pm	555	42	2.31E+07	9/17/02	38	16	0.73333	1.16E-14	9/20/02	16	20	0	0.00E+00	0.00%
E1070	9/16/02	8:07em	5:31pm	584	48	2.68E+07	9/17/02	56	18	1.3	1.76E-14	9/20/02	22	20	0.087	9.116-16	22.78%
W1070	9/16/02	8:11am	5:34pm	563	42	234E+07	9/17/02	56	16	1.33333	2.09E-14	9/20/02	20	20	0	0.00E+00	0.00%
N1071	9/17/02	8:13em	5:50pm	577	37	2.12E+07	9/18/02	191	18	5,78667	9.99E-14	9/23/02	16	18	0	0.00E+60	0.00%
81071	0/17/02	8:11am	5:00pm	529	40	2.10E+07	9/18/02	206	18	0.26667	1.10E-13	9/23/02	18	18	0	0.00E+00	0.00%
E1071	9/17/02	6:07am	5:35pm	568	45	2.53E+07	9/18/02	184	18	5.53333	8.01E-14	8/23/02	19	18	0.033	4.82E-16	12.08%
W1071	9/17/02	8:13am	5: 02 pm	529	37	1.94E+07	9/18/02	181	18	6.43333	1.03E-13	9/23/02	20	18	0.067	1.26E-15	31.50%
N1072	9/16/02	8: 15e m	5:51pm	576	37	2.11E+07	9/19/02	235	17	7.26667	1.28E-13	9/23/02	17	18	0	0.00E+00	0.00%
61072	9/18/02	9:95am	5 :45pm	580	52	2.99E+07	9/19/02	182	17	5.5	8.76E-14	9/23/02	19	18	0.683	4.09E-16	10.22%
E1072	9/16/02	8:14am	5:50pm	576	46	2.63E+07	9/19/02	233	17	7.2	1.01E-13	9/23/02	15	18	0	0.00E+00	0.00%
W1972	9/18/02	6:07sm	5: 40 pm	673	61	2.90E+07	9/19/02	130	17	3.78667	4.77E-14	9/23/02	18	18	0	8.00E+90	0.00%
N1073	9/19/02	6:22am	5:45pm	563	42	2.34E+07	9/20/02	167	20	4.58867	7.15E-14	9/24/02	18	16	0.067	1.04E-15	26.08%
81073	9/19/02	8:1 0am	5:43pm	573	42	2.39E+67	9/20/02	186	20	6.63333	8.51E-14	9/24/02	19	16	0.1	1.64E-16	38.43%
E1073	9/19/02	6:20em	5:41pm	561	36	217E+07	9/20/02	183	20	5.43933	9.19E-14	9/24/02	14	16	0	0.00€+00	0.00%
W1073	9/19/02	1 Bt 15em	0:05pm	590	42	2.46E+07	9/20/02	134	20	3.8	5.87E-14	9/24/02	17	16	0.033	4.09E-16	12.44%
N1074	9/20/07	8:01 a m	2:12pm	221	48	9.005+00	9/23/02	24	18	8.2	7.44E-15	9/25/02	: 18	17	0.093	1.24E-15	31.90%
S1074	9/20/02	8:05em	2:05pm	210	56	1.17E+07	9/23/02	21	18	0.1	3.15E-15	9/25/02	15	17	0	0.00E+00	0.00%
E1074	9/20/07	8:02 e m	2:10pm	218	52	1.12E+07	9/23/02	! 18	18	0	0.005+00	9/25/02	1 17	17	0	0.00E+00	0.00%
W1074	9/20/07	7:58em	2:00pm	212	57	1.20E+07	9/23/02	16	18	0	0.00E+00	9/25/02	17	17	0	0. 0 0E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 16 September 16 - September 20, 2002

						tims on one					
1				Flow	Tetal	Total	i i	Gross	Bkg		Sample
Date				Rete	Time	Sample	Analysis	Counts	Counts	Net	Concentration
oliected.	Name	Sample ID	PAM #	(lpm)	Sampled	Volume (mi)	Date	(30 min)	(30 min)	CPM	(aCi/mi)
9/16/02	Roger Petty	PAM1106	002-786	2.5	190	475000	9/17/02	19	16	0.10	5.40E-1
9/18/02	Liedsay Aschim	PAM1107	002-875	2.5	198	490000	9/17/02	16	16	0.00	0.00E+0
9/18/02	Regar Petty	PAM1108	002-766	2.5	273	662500	9/19/02	19	17	0.07	2.51E-1
9/18/82	Lindsay Aschim	PAM1109	002-675	2.5	267	667590	9/19/02	17	17	0.00	9.00E+0
							·	,			
											•

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information.

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Obio Street Site - Oblogo, IL

Week 16 September 16 - September 20, 2002

Date Collected	Neme	Sample (i)		Flow Rate (Ipm)	Total Time Sampled	Total Sample Volume (mi)			Birg Counts (30 min)		Sample Concentration (uClimi)	
9/16/02	Roger Petty	PAN1108	002-766	2.5	190	475000	9/20/02	18	26	8.00	0.00E+00	\$.00%
9/18/02	Roger Petty	PAM1108	002-786	2.5	273	662500	9/23/02	17	18	0.00	9.00E+00	0.00%

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours ≈ 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCl/mi

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

Message:

Date: October 11, 2002



FACSIMILE TRANSMISSION

	,			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Rudnick		Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax#: 405-270-4112
	Mark Krippel/Bemie Bono	Kerr-McGee		Fax#: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax#: 312-335-9365
Pages	being transmitted, incl. Cove	er: 17		
CC:		Fax No.;		
From:	John Esser	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urge	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
-				

IMPORTANT: This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.



STS Consultants, Ltd. voice 847-279-2500
750 Copporate Woods Parkway fax 847-279-2510
Vernon Hills, [[linois 60061-3153] web www.stsconsultants.com

October 11, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 130

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the period of 9/30/02 to 10/04/02 and the work expected to be performed during the week of 10/07/02 to 10/11/02.

Work Completed During 9/30/02 - 10/04/02

- Completed final week of removal action field activities.
- Radiological removal action activities took place in Area 4. Activities in Area 4 consisted of Phase II screening/excavation in 18-inch lifts. Radiological material excavation, handling, and disposal were performed in accordance with the Work Plan. Radiological material loading and offsite transportation are summarized below:

a. Radiological material excavation and loading

	Previous Total	Week of 9/30/02 - 10/04/02	Total To-Date
Containers	270	5	275

- 3. Verification surveys were performed following removal of radiological-impacted soils and at the base of the fill following Phase II excavation. The following areas were successfully verified and approved by USEPA during the week:
 - a. Successful Phase I/Phase II Exclusion Zone verification areas:

	Verification Date	Grid Line	Grid Line
I	10/01/02	G - H.5	20 - 24.4
	10/02/02	B.5 - D	23.5 - 25

b. Successful Phase II Final verification areas

Verification Date	Grid Line	Grid Line
10/01/02	A - D	25 - 27
10/01/02	A - C.5	21 - 22
10/01/02	1-1	21 - 24.5
10/02/02	A-D	22 - 25
10/02/02	D-G	22 - 24.5
10/02/02	G-1	20 - 24.5
10/02/02	C,5 - G	21 - 22

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 130 October 11, 2002 Page 2

Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zone from Phase II. Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

- Radiological-impacted fill soil removal activities were completed on 10/02/02 with receipt of the final USEPA verifications for Area 4.
- 5. Pesticide-impacted soil removal was performed over the 10-meter by 10-meter centered on grid coordinates H-6. An additional 1-foot of natural sand soil was excavated, loaded and transported for off-site disposal. The depth of over-excavation was pre-determined based on the result of soil borings and field immunoassay tests performed the previous week. The excavation was left open pending receipt of the laboratory verification sample result and USEPA verification sign-off. Figure 3 depicts the locations where USEPA sign-off of final pesticide verification samples has been received.
- 6. A minor amount of soil grading was performed following the completion of radiological-impacted fill removal to level major mounds and depressions in the ground surface. Additional grading will be performed to backfill the pesticide excavation at grid coordinate H-6 after successful verification sample results are obtained and approved by USEPA. Tarps were placed over the temporary soil mounds that will be used to backfill at H-6.
- 7. Area and personal air monitoring were performed at the site. Results for the week of 9/23/02 to 9/27/02 are included in Attachment 3. No exceedances of allowable limits were measured. STS transmitted a letter to USEPA on 10/03/02 documenting USEPA verbal approval to discontinue air monitoring as of 10/02/02. Results of air monitoring for the week of 9/30/02 through 10/04/02 will be provided in the next weekly report.
- 8. STS transmitted a letter to USEPA on 09/27/02 documenting a modification to the Removal Action Work Plan and USEPA's verbal approval of the changes relating to a concrete foundation wall encountered near the north property line and concrete pile caps encountered below the urban fill in Area 4. Additional documentation was provided in a second letter to USEPA, dated 10/08/02.

Work Planned for 10/07/02 to 10/11/02

- 1. Obtain results from the analytical testing laboratory for pesticide verification soil samples taken following additional excavation at H-6.
- Backfill excavation at H-6.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

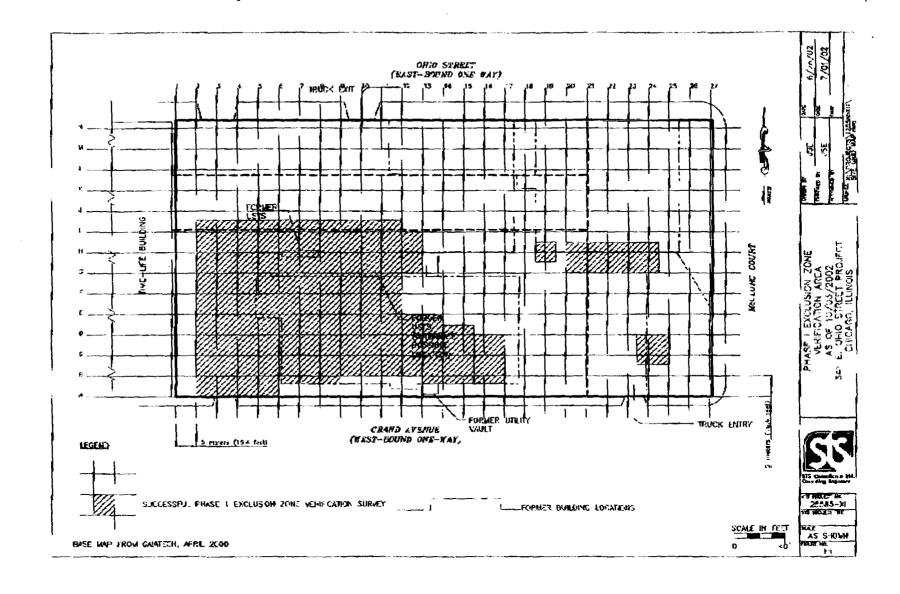
John S. Esser, P.E., P.G. Senior Project Engineer U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 130 October 11, 2002 Page 3

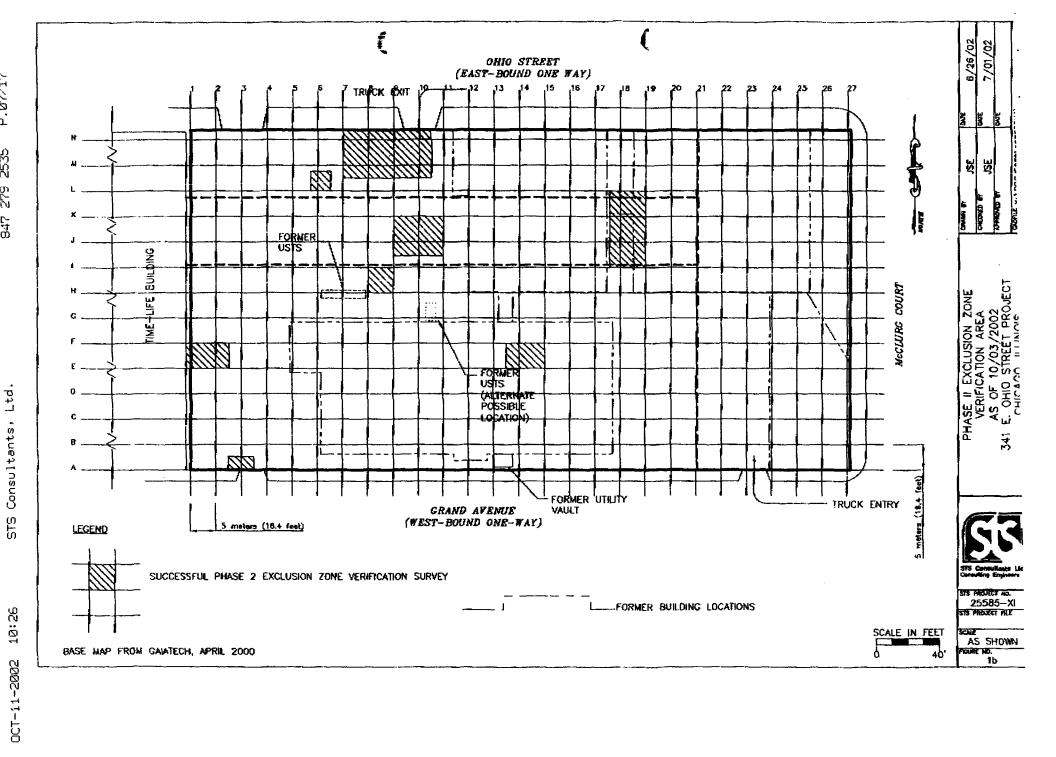
Attachment 1 Site Maps
Attachment 2 Pesticide Pre-Verification/Verification Test Data
Attachment 3 Air Monitoring Results for 9/23/02 to 9/27/02

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

Site Maps





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Consultants,

STS

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OCT-11-2002

Pesticide Pre-Verification/Verification Test Data

EPA Verification Signature Date	Grid Location	Sample Type			
08/20/2002	F-4-VP	base			
08/20/2002	F-6-VP	base			
08/20/2002	F-10-VP	base			
08/20/2002	F-8	base			
08/20/2002	H-10	base			
08/20/2002	H-12	base			
08/20/2002	H-4	base			
08/20/2002	H-8	base			
08/20/2002	1-2	sidewall			
08/20/2002	1-4	sidewall			
08/20/2002	1-6	sidewall			

PA Verification Signature Date	Grid Location	Sample Type
09/06/2002	H-14	base
09/06/2002	F-16	base
09/06/2002	F-18	base
09/06/2002	F-21	sidewall
09/06/2002	F-14	sidewall
09/06/2002	I-16	sidewall
09/06/2002	I-18	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
09/04/2002	H-16	base
09/04/2002	H-18	base
09/04/2002	D0.5-16	sidewall
09/04/2002	D0.5-18	sidewall
09/04/2002	D0.5-20	sid ewai l
09/04/2002	J0.5-8	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
09/17/2002	F-12	base
09/17/2002	F-14	base
09/17/2002	G-20	base

EPA Verification Signature Date	Grid Location	Sample Type
09/17/2002	J-16.5	base
09/17/2002	J-12	base
09/17/2002	J-14	base
pending	K-12	sidewall
pending	K-14	sidewall
pending	K-14	sidewall

Air Monitoring Results

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Monitor		Week #17 9/23/02-9/2	27/02	(High Volume)
	Time Sampled	Efficient Concentration	Concentration x	
Date	(minutes)	in uCVml	Sample Min / Day	Comments
9/23/02	568	0.00E+00	0.00E+00	
9/24/02	499	5.04E-16	2.51E-13	
9/25/02	495	0.00€+00	0.00E+00	
9/26/02	517	0.00E+00	0.00E+00	
9/27/02	475	0.00E+00	0.00E+00	
	2554	5.04E-16	2.51F-13	

 $C_{mq} \approx \sum T_{ms}C_{ms}$ ΣT. Time Weighted Weakly Effluent Concentration (North) = 9.86E-17 uCi/mi

Eq A.9 NUREG 1400

Percentage of Release Limit of # 2.46%

4E-15uCitril

South Monitor

	Open my				
		Time Sampled	Effluent Concentration	Concentration x	
	Date	(minutes)	in uCl/mt	Sample Min / Day	Comments
	9/23/02	591	9.71E-16	5.74E-13	
- 1	9/24/02	488	9.91E-16	4.84E-13	
ļ	9/25/02	491	4,19E-18	2.06E-13	i
j	9/26/02	495	8.23E-16	3.08E-13	
	9/27/02			0.00E+00	
		2557			

Can = E Tai C ΣT.

Eq A.S NUREG 1400

Time Weighted Weekly Effluent Concentration (South) = 6,16E-16 uCi/ml Percentage of Release Limit of = 15.37%

4E-15uCVml

Fast Monitor

PART MAIN				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCVml	Sample Min / Day	Comments
9/23/02	566	0.00E+00	0.00E+00	
9/24/02	482	0.00E+00	0.DOE+00	
9/25/02	497	0.00E+00	0.00E+00	
9/26/02	491	1.57E-15	7.71E-13	
9/27/02	470	6.91E-16	3.25E-13	
	2506	2.265-15	1.10E-12	

Com = ETac

Time Weighted Weekly

ΣT. Eq A.S NUREG 1400

4.37E-16 uCVml Effluent Concentration (East) = Percentage of Release Little of = 10.92%

4E-15UCI/mi

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)		Sample Min / Day	Comments
9/23/02	589	0.00E+00	0.QOE+00	
9/24/02	503	0.00E+00	0.00E+00	
9/25/02	485	1. 86 E-15	9.02E-13	
9/26/02	511	0.00E+00	0.00E+00	
9/27/02)		7.71E-13	
	2573	3.45E-15	1.67E-12	

 $C_{evg} = \sum T_{ev} C_{ev}$ $\sum T_{ev}$ Eq A.9 NUREG 1400

Time Weighted Weekly	
Effluent Concentration (West) =	6.50E-16 uCi/mi
Percentage of Release Limit of =	16.20%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Onio Street Project - Chicago, IL

Week 17

September 23, 2002 - September 27, 2002

			~			rol roce.	# C P () ()				بيزداد						
			į į	total	cubic	oligniae		day	after a	nalysis			for	r day a	<u>nalysis</u>	·	% of Limit
Benaple	dah	start	stop	Sime	ft min	volume	4	gross	Mg	net	Concentration	deb	gross		net	Concentration	4.00E-15
ID .	nempled	Time	time	sampled	(CFM)	analysed	analyzed	counts	counts	cpm	InuClini	analyzad	counte	counts	opm	in uCl/mi	uClimi
N1075	9/23/02	8:20am	5:48pm	566		2.93E+07	8/24/02	67	16	1.7	2.13E-14	9/27/02	17	17	0	0.00E+00	0.00%
81075	9/23/02	7:58am	5:48pm	691	43	2.52E+07	9/24/02	76	16	2	2.01E-14	9/27/02	19	17	0.067	9.71E-16	24.26%
E1075	9/23/02	6:17am	5:45pm	500	46	2.59E+07	9/24/02	96	16	2.00007	9.78E-14	9/27/02	17	17	8	0.00E+80	0.00%
W1075	9/23/02	7:5 8s m	5:47pm	689	41	2.39E+07	9/24/02	90	16	2.46667	8.75E-14	9/27/02	18	17	0	0.00E+00	0,00%
N1076	9/24/02	6:00em	4:19pm	498	49	2.42E+07	9/25/02	39	17	0.73333	1.11E-14	9/30/02	20	19	0.033	6.04E-16	12,81%
91076	9/24/02	6:07em	4:15pm	488	51	2.47E+07	9/25/02	27	17	0.33333	4.98E-15	0/30/02	21	19	0.067	9.915-18	24.78%
E1076	9/24/02	8:10em	4:12pm	482	40	1.91E+07			17	0.43333	8.32E-15	9/30/02	18	19	0	0.00E+00	0.00%
W 1076	9/24/02	8:07 a m	4:30pm	503	51	2.54E+07	9/25/02	33	17	0.53393	7.89E-15	9/30/02	15	19	- 0	0.00E+00	8.00%
N1077	9/25/02	8:00mm	4:15pm	495	42	2.08E+07	9/26/02		16	3.63333	0.47E-14	9/30/02	19	19	0	0.00E+00	0.00%
31077	9/25/02	8:04em	4:15pm	491	60	2.92E+07	9/26/02		16		2.86E-14	i	20	10	0.033	4.19E-16	10.47%
E1077	\$/25/02	8:04 a m	4:21pm	497	50	2.46E+07	9/26/02	73	16	1.0	2.83E-14	9/30/02	17	10	1	0.00E+00	0.00%
N1077	9/25/02	6:10am	4:15pm	485	41	1.97E+07	9/26/02	79	16	2.1	3.91E-14	9/30/62	22	19	0.1	1.86E-16	48.51%
V1078	9/26/02	6:00em	4:37pm	517	52	2.66E+07	9/27/02	255	17	7.93333	1.09E-13	10/1/02	17	18	• 0	0.00E+00	0.00%
31078	9/26/02	6:02am	4:17pm	496	40		9/27/02		17	7.23333	1.35E-13	10/1/02	19	18	0.033	6.23E-16	15.57%
E1078	9/26/02	6: 06a m	4:17pm	491	48	2.34E+07			17		1.22E-13	10/1/02	21	18	0.1	1.57E-15	39.25%
N1078	8/26/03	8:04am	4:35pm	511	42				17	6.86667	1.18E-13		17	18	. 0	0.00E+00	0.00%
N1078	9/27/02	8:1 8em	4:13pm	476	67	2.68E+07	8/30/02		19	0.03333	4.55E-18	10/2/02	16	18	. 0	0.00E+00	0.00%
31079	9/27/02	6:00am	4:12pm	462	57	2.78E+07							15	10	. 0	0.00E+00	8,00%
E1079	9/27/02	8:20am	4:10pm	470	38	1.77E+07			19	_					0.033	6.91E-16	17.26%
N1079	9/27/02	8:10am	4:15pm	465	48	2.31E+07											

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 17 September 23 - September 27, 2002

*** All PARE's with	levated counts on deviation ensivels are recounted after 4 days (see atta	(had)
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		•		Flow	Total	Total		Gross	Bkg		Sample
Date				Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration
Collected		Sample ID	PAM	(Spen)	Sampled	Volume (mi)	Date	(30 min)	(36 min)	CPM	(uCVmi)
9/26/02	Lindsay Aschim	PAM1110	002-766	2.5	181	402500	9/27/02	16	17	0.00	0,00E+00
9/26/02	Jerry Krane	PAM1111	002-766	2.5	164	410000	9/27/02	17	17	0.00	0.00E+00
9/26/02	Roger Petty	PAM1112	002-675	2.5	335	837500	9/27/02	19	17	0.07	2.04E-14
9/27/02	Jeny Krane	PAM1113	002-675	2.5	420	1050000	8/30/02	16	19	0.00	9.00E+00
9/27/02	Roger Petty	PAM1114	006-234	2.5	420	1950000	9/30/02	18	19	0.00	0.00E+00

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dasa Limit Information.

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL

Week 17 September 23 - September 27, 2002

Date Collected	Name	Sample ID		Flow Rate (lpm)	Total Time	e were analyze Total Sample Volume (mil)	Analysis Deta	Gross Counts (30 min)	Counts (30 min)	Net CPM	Concentration (wCi/ml)	
9/26/02	Roger Petty	PAM1112	002-675	2.5	335	837500	10/1/02	18	, 16	0.00	0.uuc.vo	,,,,,,

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

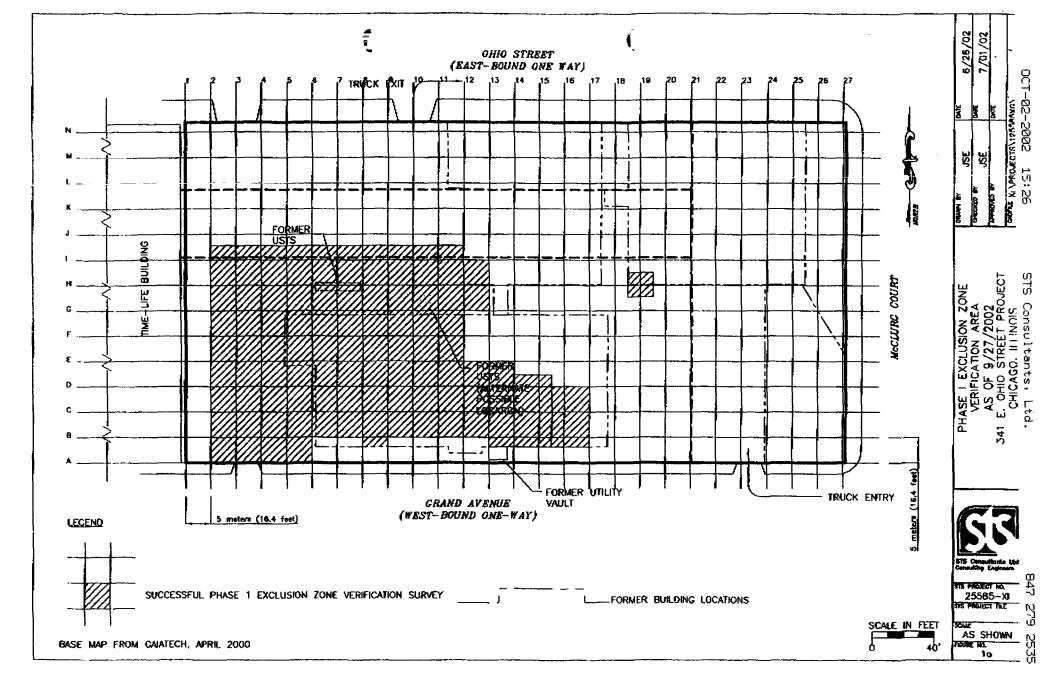
DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

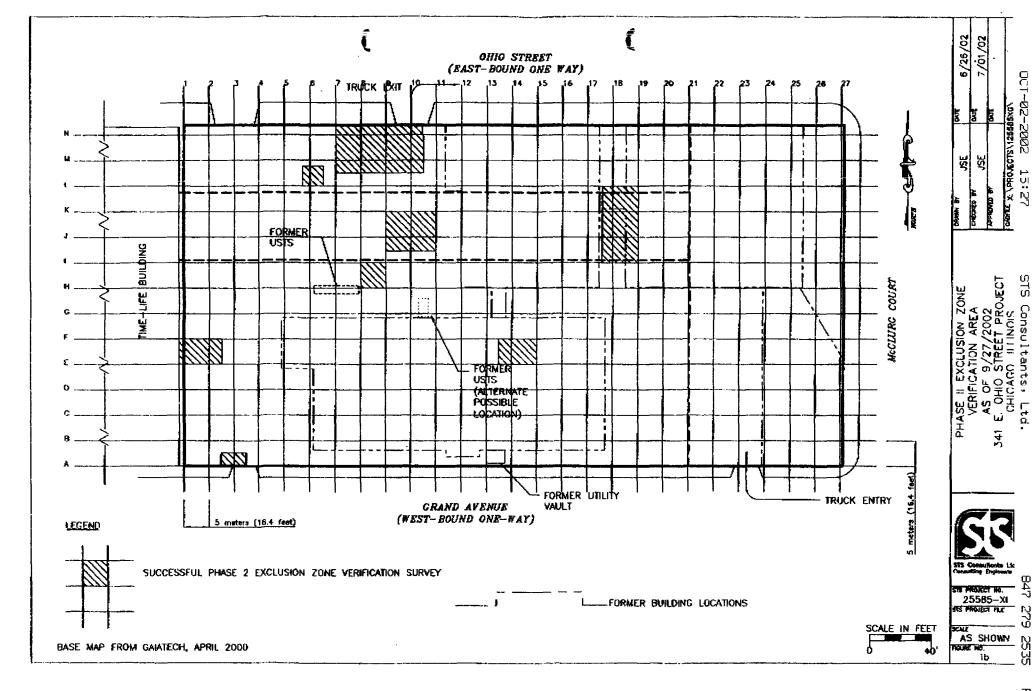
Site Maps

411

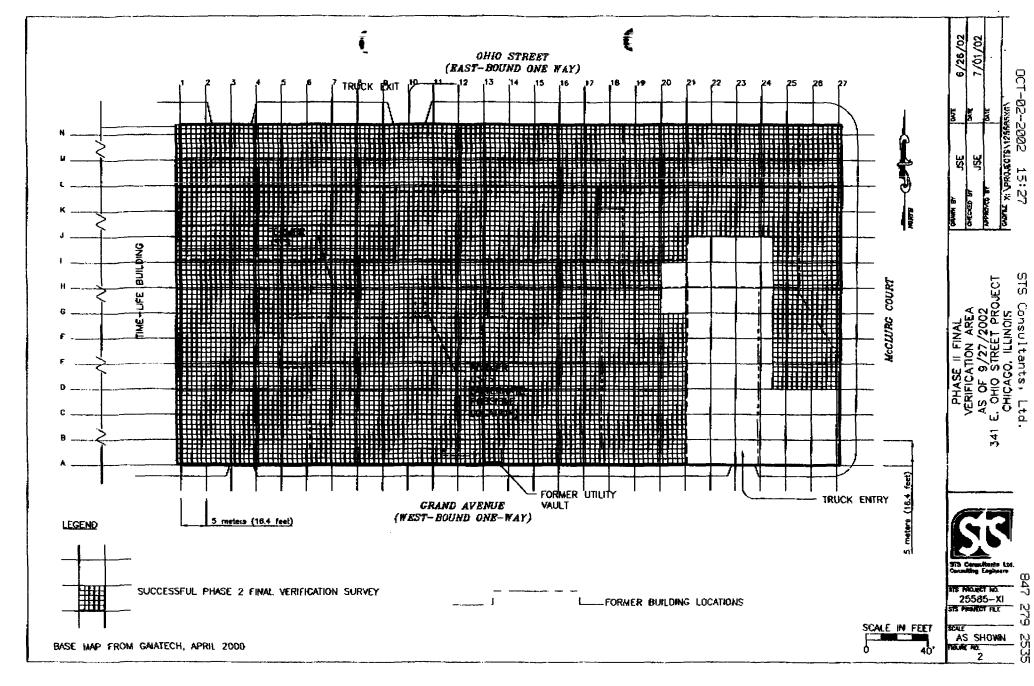
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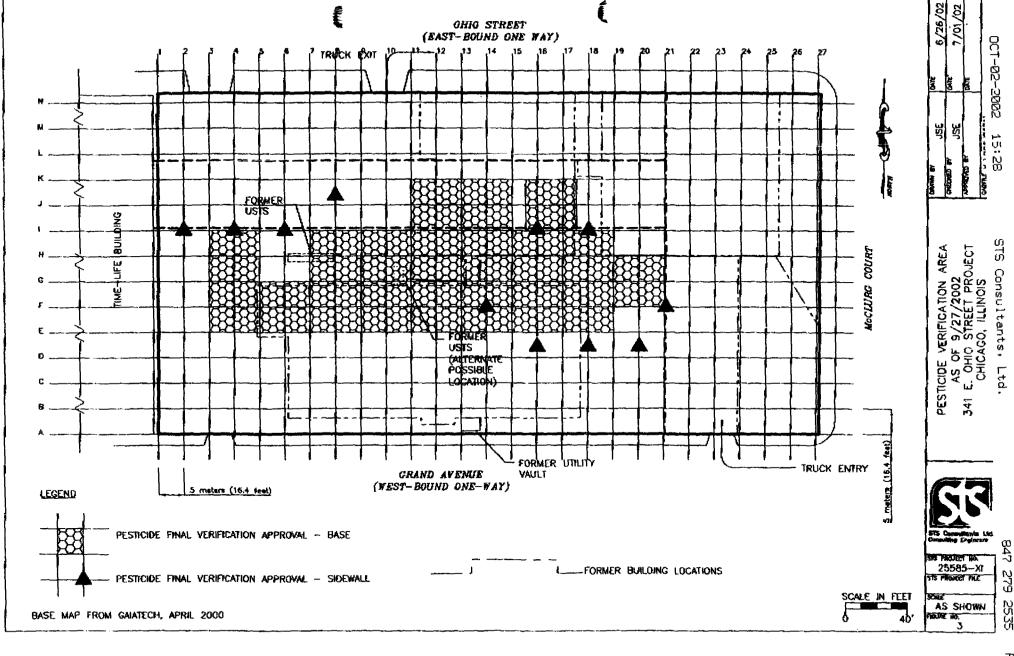
T. 25/22



P.07/22



P.08/22



P. 09/22

SRY,

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

Y Held

FACSIMILE TRANSMISSION

vare:	September 20, 2002				
To:	Fred Micke/Verneta Simon	USEPA		Fax#: 312-353-9176	
	Timothy Ramsey	Piper Rudnick		Fax#: 312-630-7350	
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112	
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax#: 630-231-3990	
	Thomas Pabian/TerryMcKay	Capri Capital		Fax#: 312-335-9365	
Pages	being transmitted, incl. Cover	: 19			
CC:	· · · · · · · · · · · · · · · · · · ·	Fax No,;			
From:	: John Esser	Phone:	847-279-2500		
Re:	341 East Ohio Street Site				
Urge	nt	Please Comment/Reply	As Requested	Original to Follow	
Mess	âge:				

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STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153 voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

September 20, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 121

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 9/9/02 to 9/13/02 and the work expected during the week of 9/16/02 to 9/20/02. For location reference, site maps showing gridlines are included as Attachment 1.

Work Completed During 9/9/02 - 9/13/02

- Completed 15th week of removal action field activities.
- 2. Radiological removal action activities took place in Area 2 and Area 3. Activities in Area 2 consisted of Phase II excavation in 18-inch lifts. Activities in Area 3 included some pavement removal, Phase I surveying and Phase II excavation in 18-inch lifts. Radiological material excavation, handling, and disposal were performed in accordance with the Work Plan. Radiological material loading and offsite transportation are summarized below:

a. Radiological material excavation and loading

	Previous Total	Week of 9/9/02 - 9/13/02	Total To-Date
Containers	256	9	265

- Verification surveys were performed following removal of radiological-impacted soils and at the base of the fill following Phase II excavation. The following areas were successfully verified and approved by USEPA last week:
 - a. Successful Phase I/Phase II Exclusion Zone verification areas

Verification Date	Grid Line	Grid Line
9/11/02	L.5 - N	7 - 10.5

b. Successful Phase II Final verification areas

Verification Date	Grid Line	Grid Line
9/11/02	L-N	5 - 11

Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zone from Phase II. Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 121 September 20, 2002 Page 2

- 3. Subsurface concrete foundation elements were removed in Area 3. The foundation elements were broken, cleaned, and frisked before temporary stockpiling or loading for offsite disposal.
- 4. USEPA sign-off was received for the following pesticide verification areas since the previously weekly report (verifications received through 9/17/02):

Verification Signoff Date	Grid Location	Verification Sample Type
9/6/02	H-14	base
9/6/02	F-16	base
9/6/02	F-18	base
9/6/02	F-21	sidewall
9/6/02	F-14	sidewall
9/6/02	I-16	sidewall
9/6/02	I-18	sidewall
9/17/02	F-12	base
9/17/02	F-14	base
9/17/02	G-20	base
09/17/2002	J-16.5	base
09/17/2002	J-12	base
09/17/2002	J-14	base

Figure 3 depicts the locations where USEPA sign-off of final pesticide verification samples have been received.

5. Area and personal air monitoring were performed at the site. Results for the week of 9/9/02 to 9/13/02 will be included in next week's report. Results for the week of 9/2/02 to 9/6/02 are included in Attachment 3. No exceedances of allowable limits were measured.

Work Planned for 9/16/02 to 9/20/02

- 1. Complete Phase II removal in Areas 2 and 3.
- 2. Begin pavement stripping and Phase I radiological-impacted soil removal in Area 4.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Septor Project Engineer

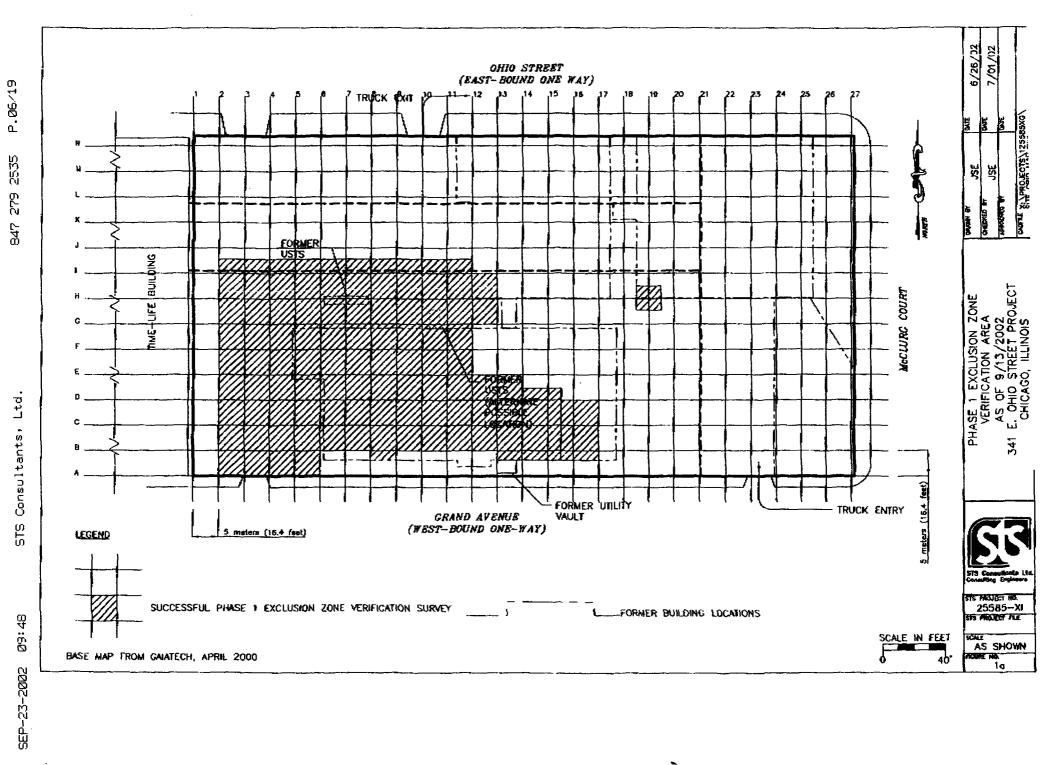
Attachments: Attachment 1 Site Maps

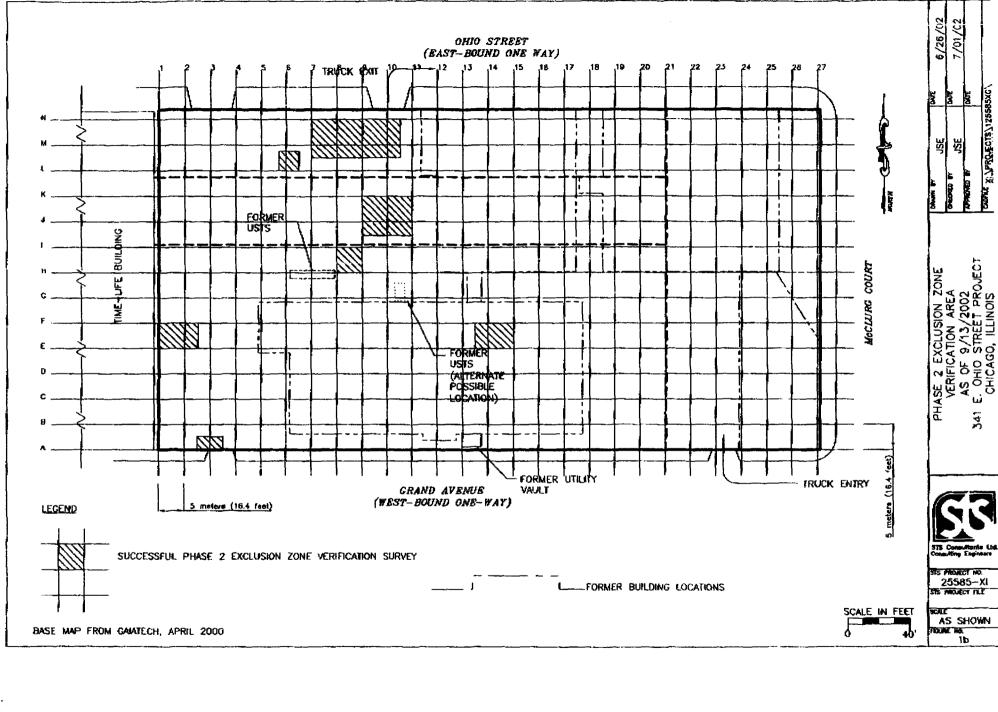
Attachment 2 Pesticide Pre-Verification/Verification Test Data Attachment 3 Air Monitoring Results for 9/2/02 to 9/6/02

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 121 September 20, 2002 Page 3

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

Site Maps





49 STS Consultants,

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SEP-23-2002

Pesticide Pre-Verification/Verification Test Data

EPA Verification Signature Date	Grid Location	Sample Type
09/06/2002	H-14	base
09/06/2002	F-16	base
09/06/2002	F-18	base
09/06/2002	F-21	sidewall
09/06/2002	F-14	sidewall
09/06/2002	I-16	sidewall
09/06/2002	I-18	sidewall

EPA Verification Signature Date	Grid Location	Sample Type
09/17/2002	F-12	base
09/17/2002	F-14	base
09/17/2002	G-20	base
03/11/2002	G-20	pase

PA Verification Signature Date	Grid Location	Sample Type
09/17/2002	J-16.5	base
09/17/2002	J-12	base
09/17/2002	J-14	base
pending	K-12	sidewall
pending	K-14	sidewall

Air Monitoring Results

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Mor	ritor	Week #14 9/2/02-9/6/	02	(High Volume)
Date	Time Sampled (minutes)	Effluent Concentration in uÇi/mi	Concentration x Sample Min / Day	Comments
9/2/02	0	0.00E+00	0.00E+00	
9/3/02	562	0.00€+00	0.005+00	
9/4/02	532	5.15E-16	2.74E-13	
8/5/02	582	0.00E+00	0.00€+00	
9/6/02	454			
	2130	5.15E-16	2.74E-13	

Com = E Tal C

ΣT.

Time Weighted Weekly

Effluent Concentration (North) = 1.20E-16 uCi/ml Percentage of Release Limit of =

3.22%

Eq A.9 NUREG 1400

4E-15UCIMI

South Monitor

	SOUTH MOTION						
	Time Sampled	Effluent Concentration	Concentration x				
Date	(minutes)	in uCVml	Sample Min / Day	Comments			
9/2/02	0	0.00€+00	0.00E+00				
9/3/02	\$ 55	1.5 5 E-15	8.60 E- 13				
9/4/02	532	0.00€+00	0.00E+00				
9/5/02	568	9.44E-16	5.36E-13				
9/6/02	473	0.00E+00	0.00E+00				
	2128	2,49E-15	1.40E-12				

 $C_{max} = \sum_{i} I_{-i} C_{i}$

Time Weighted Weekly

Effluent Concentration (South) =

6.86E-16 uCVml

Eq A.9 NUREG 1400

 ΣT_{\bullet}

Percentage of Release Limit of =

18.41%

4E-15uCimy

Cant Blacker

EAST WALL				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/mi	Sample Min / Day	Comments
9/2/02	0	0.00E+00	0.00E+00	
9/3/02	545	4.53E-16	2.47E-13	
9/4/02	527	9.96E-16	5.25E-13	
9/5/02	568	0.00E+00	0.00E+00	
9/6/02	464	0,00≝+00		
	2104	1.45E-15	7.72E-13	

Com # E Tar C

Time Weighted Weekly

ΣT.

Effluent Concentration (East) =

3.67E-16 uCl/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

9.17%

4E-15uCi/mi

West Monitor

A A COMP TO LOSS 1				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/mt	Sample Min / Day	Comments
9/2/02	0	0.00E+00	0.00E+00	
9/3/02	547	0.00E+00	0.00E+00	i i
9/4/02	527	0.00E+00	0.00€+00	1
9/5/02	572	0.00E+00	0.00E+00	
9/6/02	468	1,95E-15	6,32E-13	
	2114	1 355-15	A 32E-13	

 $C_{aug} \cong \underline{\Sigma \ T_{e,i} \ C_{i}}$ $\Sigma \ T_{e}$

Eq A.P NUREG 1400

Time Weighted Weekly

Effluent Concentration (West) = 2.99E-16 uCi/ml

Percentage of Release Limit of = 7.47%

SEP-23-2002

09:53

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Wook 14 September 2, 2002 - September 6, 2002

Wook 14 September 2, 2002 -							3ehraum										
	total cubic semple							tley after analysis					four day shalysis				
Sample	date	start	st op	time	Winin	volume	date	grobe	big	net	Concentration	della	(ROSE	Heg	neil	Concentration	4/00E-15
1D	beignes	Time	time	beignas	(CFM)	whityzba	eneiyaed	counts	sourits.	com	in u Ciámi	eneiyzeci	counts	COUNTIN	ерт	in uCidini	uCi/mi
NO WG	SK ON SY	2/02 - Lab	of Day He	diday													
N1081	9/3/02	8:05am	5:27pm	682	41	2.20E+07	9/4/02	58	18	1.33933	2.145-14	9/9/02	15	16	•	0.00E+00	£00.0
\$1061	9/3/02	B:05am	5:20pm	555	43	2.37E+07	9/4/02	78	68	2	3.10E-44	9/9/02	10	15	0.1	4.55E-15	38.78%
E1061	9/3/02	6:05am	5:10pm	545	50	2.70E+07	9/4/02	71	18	1.76667	2.40E-14	9/9/02	17	15	0.093	4.53E-16	11.31%
W1081	9/3/02	0:08em	5:1 6 pm	547	48	2.60E+07	9/4/02	49	10	1.03333	1.46E-14	9/9/02	16	16	40	0.002+00	0.00%
N1082	9/4/02	8:03em	4:6 5 pm	532	45	2.37E+07	9/5/02	97	119	2.6	4.02E-14	8/9/02	17	16	0.033	5.15E-16	12.88%
S1062	9/4/02	8:13em	5:06pm	532	37	1.95E+07	9/6/02	84	19	2.16667	4.07E-14	9/9/02	16	16	0	D.00E+00	0.00%
E1062	8/4/02	8:09em	4:66pm	527	47	2.45E+07	9/5/02	61	19	1.4	2.09E-14	8/9/02	18	16	0.067	9.96E-18	24.90%
W1062	8/4/02	6:13pm	5:00pm	527	45	2.35E+07	9/5/02	107	ef	2.93333	4.68E-14	9/9/02	16	16	0	0.002+00	0.00%
N1063	9/5/02	E:01am	5:43pm	582	50	2.86E+07	9/0/02	. 83	17	2.2	2.80E-14	9/10/02	: 17	17	ů.	0.00E+00	¢.00%
B10 6 3	9/5/02	8:07am	5:35pm	568	46	2.59E+07	9/6/02	79	17	2.06667	2.83E-14	9/10/02	19	17	0.067	9.44E-16	23.80%
E1063	0/5/02	B:03am	5:91pm	568	47	2:66E+07	9/8/02	67	17	1.88867	2.31E-14	9/10/02	17	17	0	0.0 0E +00	3600.0
W 1063	9/5/02	8:05am	5:37pm	572	38	2.15E+07	9/6/02	92	17	2.5	4.26E-14	0/10/02	16	17	•	0.00£+00	0.00%
N1064	816/02	8:21am	3:55pm	454	41	1.84E+07	9/9/02	24	90	0.28667	5.30E-15	9/11/02	17	17	•	0.00E+00	0.00%
B1064	9/6/02	B:09am	4:02pm	473	37	1.73E+07	9/9/02	30	10	0.46667	9.87E-15	9/11/02	16	17	Φ.	0.00E+00	0.00%
E1064	9/6/02	8:1 6a m	4:00pm	484	43	1.98E+07	9/9/02	19	16	0.1	1.05E-16	9/11/02	17	17	0	0. 00 E+00	£00.0
W1064	9/6/02	8:09em	3:57pm	468	39	1.81E+07	8/8/02	26	10	10.4	6.11E-15	9/11/02	19	17	0.067	1,35E-15	33.78%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 14 September 2 - September 6, 2002

*** All PAM's with alloyated counts on day after analysis are recounted after 4 days (see attached)

Date Collected		Sample (D	PAN #	Flow Rate (tpm)	Total Time Sampled	Total Sample Volume (mi)	Analysis Date	Gross Counts (30 min)	Bkg Counts (30 min)	Net CPM	Sample Concentration (uCVml)
9/5/02	Leonard Smith	PAM1095	002-766	2.5	65	162500	9/6/02	16	17	0.00	0.00E+00
9/5/02	Roger Petty	PAM1096	002-574	2.5	58 5	1462500	9/6/02	17	17	0,00	9.00E+90
B/5/02	Lindsey Aschim	PAM1097	008-234	2.5			9/6/02	18	17	0.07	1.32E-14
9/6/02	Roger Petty	PAM1098	002-766	2.5			9/9/02	16	16	0.00	0.90E+00
	Toby Shewan	PAM1099	002-574	2.5			9/9/02	15	16	0.00	0.00E+0
	Lindsay Aschim		006-234	2.5			9/9/02		16	0.00	0.00E+0

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information.

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Onio Street Site - Chicago, IL.

Week 14 September 2 - September 6, 2002

 TTELESCO III REPRESENT CO CINE DA	an company and the company and a second	rs to allow for thorium daughter decay
TWO ALL SHIPPS IN HES LE	IN BOTH MINISTERN HERE & CIES	PAR TIN MINUMAN YANG MINUMAN KANAN MANAN MAN

Name		Flow Rate (ipm)			Date			CPM	(uCl/ml)	% of DAC
Lindsay Aschim						البقاوي والمراجعة والمراجعة				0.00%
						<u> </u>				
			Name Seraple ID PAM # (ipm)	Name Sarapia ID PAM # (ipm) Sampled	Name Sample ID PAM # (ipm) Sampled Volume (ml)	Rate Time Sample Analysis Name Sample ID PAM # (ipm) Sampled Volume (mi) Date	Rate Time Sample Analysis Counts Name Sample ID PAM # (ipm) Sampled Volume (mt) Date (30 min)	Rate Time Sample Analysis Counts Counts Name Sample ID PAM # (ipm) Sampled Volume (ml) Date (30 min) (30 min)	Rate Time Sample Analysis Counts Counts Net Name Sample ID PAM # (ipm) Sampled Volume (mi) Date (30 min) (20 min) CPM	Rate Time Sample Analysis Counts Counts Net Concentration Name Sample ID PAM # (ipm) Sampled Volume (mi) Date (30 min) (20 min) CPM (uCl/mi)

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml



STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Date:	September 9, 2002				
To:	Fred Micke/Verneta Simon	USEPA		Fax#: 312-353-9176	_
	Timothy Ramsey	Piper Rudnick		Fax#: 312-630-7350	_
	Harold Holmberg	Кеп-МсСее		Fax#: 405-270-4112	
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax#: 630-231-3990	
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365	
Pages	being transmitted, incl. Cover	: 18			
CC:	·	Fax No.:			
From:	John Esser	Phone:	847-279-2500		
Re:	341 East Ohio Street Site				
☐ Urge	nt 🗍 For Signature 🏻 For Review	☐ Please Comment/Reply	As Requested	Original to Follow	
Messa	age:		•		

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STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153 voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

September 9, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 117

Dear Mr. Micke and Ms. Simon.

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 26 to 30 August 2002 and the work expected during the week of 2 to 6 September 2002. For location reference, site maps showing gridlines are included as Attachment 1.

Work Completed During 26 to 30 August 2002

1. Completed thirteenth week of removal action field activities. Removal action activities consisted of Area 1/Phase II and Area 2/Phase II fill excavation, radiological screening, and temporary stockpiling. No radiological-impacted soils were loaded or transported off-site during the week. Phase II excavation was performed in 18-inch lifts. Buried concrete foundation structures were excavated, cleaned, and frisked before temporary stockpiling and eventual off-site transportation and disposal. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Week of 8/26 - 8/30/02	Total To-Date
Containers	246	0	246

- 2. Verification surveys were performed following removal of radiological-impacted soils,
 - a. Successful Phase I/Phase II Exclusion Zone verification areas

Cabbooto al Titabo	THE SE IT EXCIDENT	Long Vermodilon Liv
Verification Date	Grid Line	Grid Line
8/27/02	1.5 - K	9.5 - 11

b. Successful Phase II Final verification areas

Verification Date	Grid Line	Grid Line
8/27/02	l.5 - J.5	1 - 9.5
8/28/02	I - J.5	1 - 9.5
8/28/02	C-E	1 - 10

0

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 117 September 9, 2002 Page 2

8/28/02	B-C	1 - 12
8/30/02	C-E	10 - 21
8/30/02	J.5 - L	1 - 9.5
8/30/02	1 - L	9.5 - 11

Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zone from Phase II. Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

- 3. Pesticide-impacted soils identified from previous soil borings and recent field sampling was excavated from portions of Area 1 and 2 where Phase 1 radiological-impacted soil removal was previously completed. Pesticide-impacted soils were managed, transported, and disposed in accordance with the Work Plan. Discretionary sampling and field immunoassay testing of suspected pesticide-impacted soils were performed to guide excavation of the pesticide-impacted soils.
- 4. STS performed pre-verification sampling and field immunoassay testing on the in-situ soils exposed in the excavation following removal of pesticide-impacted soils. The location of the pre-verification samples, the results of the field immunoassay and where applicable laboratory tests are presented in Attachment 2. No Pesticide Verification Signoffs were received from USEPA during the week. Figure 3 shows the areas which have received final verification sign-off for pesticide-impacted soil removal.
- Area and personal air monitoring were performed. Results for the week of 26 August to 30
 August 2002 will be included in next week's report. Results for the weeks of 19 August to 23
 August, 2002 are included in Attachment 3. No exceedances of allowable limits were
 measured.

Work Planned for 2 to 6 September 2002

- 1. No work will be performed on Monday due to the Labor Day holiday.
- 2. Complete Phase II removal of radiological-impacted soil in the northeastern portion of Area 1. Backfilling of completed Phase II sign-off areas in Area 1 will continue, so as to provide permanent staging areas for operations in Areas 2, 3 and 4.
- 3. Continue Phase I and Phase II removal in Area 2.
- 4. Continue excavation and removal of pesticide-impacted soils from Area 1 and Area 2. Additional discretionary sampling of in-situ soils and field pesticide analysis using the immunoassay test procedure will be performed. Additional pre-verification and verification sampling and analyses will be performed as pesticide-impacted soil removal is completed.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 117 September 9, 2002 Page 3

5. Following a determination as to the need for dewatering in Area 4, an application for discharge permit from the Chicago Department of Sewers may be finalized and delivered to the City in the next two to three weeks.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD

John S. Esser, P.E., P.G. Senior Project Engineer

Attachments:

44.4

Attachment 1 Site Maps

Attachment 2 Pesticide Pre-Verification/Verification Test Data

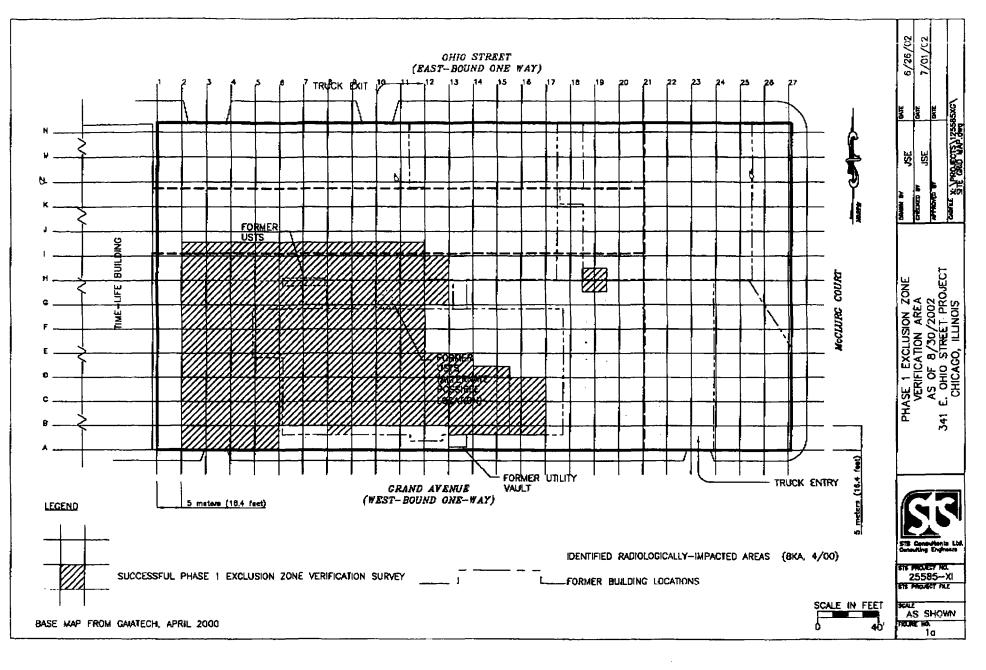
Attachment 3 Air Monitoring Results for Week 19 to 23 August 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital SEP-09-2002 10:20

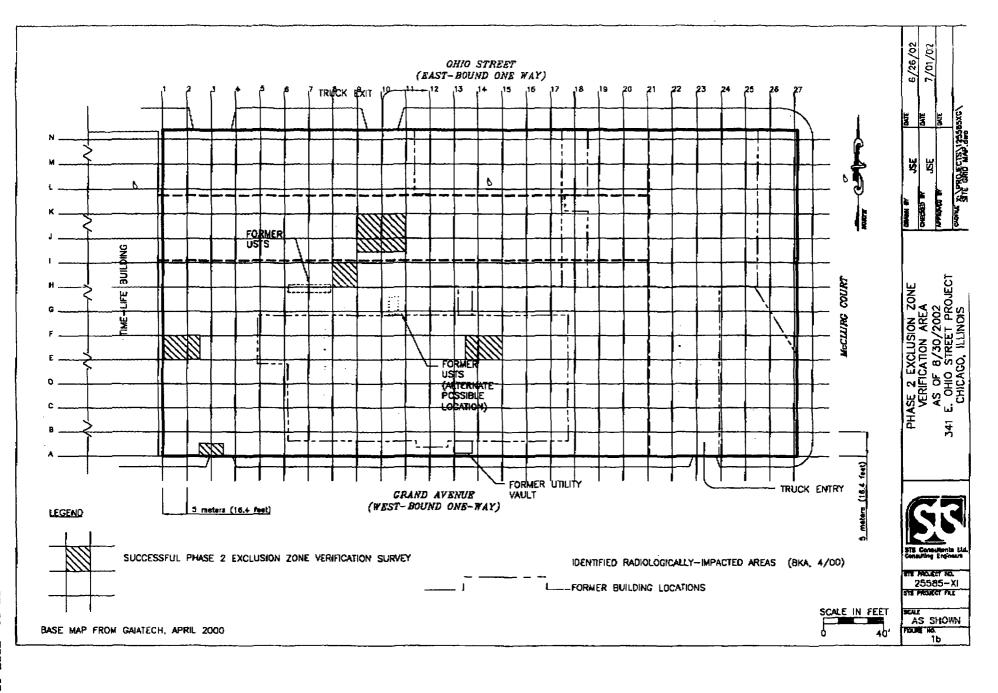
ATTACHMENT 1

Site Maps

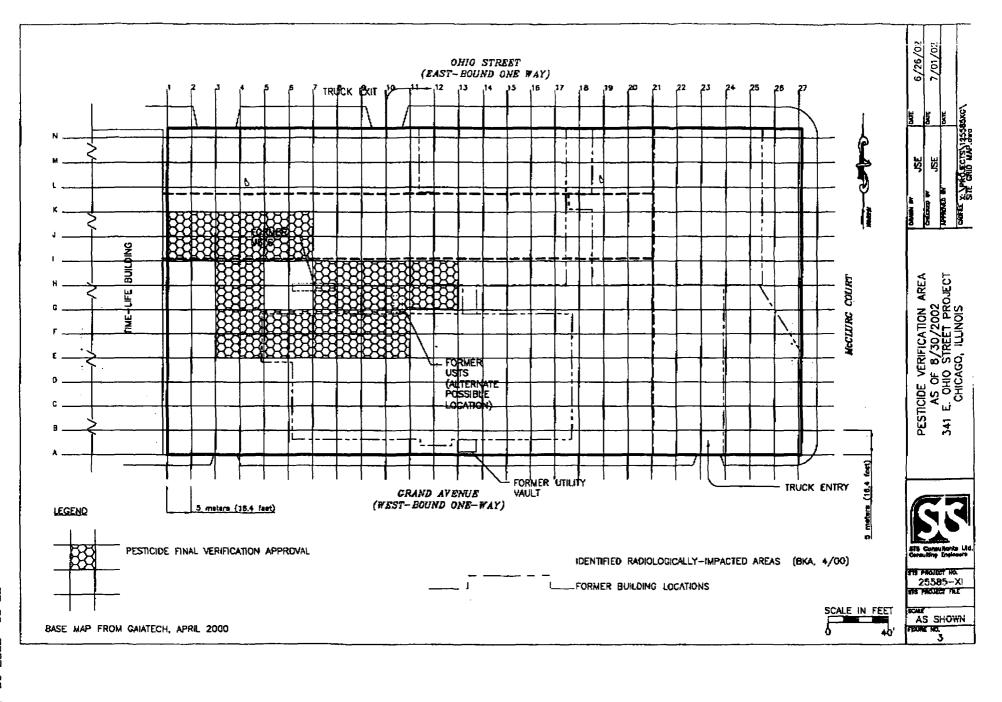
Annual Control



*



SEP-09-2002



ATTACHMENT 2

Pesticide Pre-Verification/Verification Test Data

Pesticide Results Summary 341 East Ohio Street (Revised 9/4/02)

			Chlordane			Laboratory C	Constituent Co	ncentration Res	ulte ⁴ (mg/kg)		
Sample Location ¹	Sample Dete	Sample Type ²	immunosssay Fleid Kit ² (mg/kg)	Aldrin	aipha BHC	Chlordene (tech)	Dieldrin	Heptschior	Heptachlor Epoxide	Lindane (gamms BHC)	4,4"-DDT
F-4	07/26/2002	base	0.534	ND(0.038)	ND(0.038)	ND(0.38)	ND(0.038)	ND{0.03B}	ND(0.038)	ND(0.03B)	ND(0.038)
F-6	07/26/2002	base	0.437	ND(0.038)	ND(0.038)	ND(0.38)	ND(0.038)	ND(0.03B)	ND(0.038)	ND(0.038)	ND(0.038)
F-10	07/26/2002	base	0.068	ND(0.036)	ND(0.036)	ND(0.36)	ND(0.036)	ND(0.038)	ND(0.038)	ND(0.038)	ND(0.036)
F-8	07/31/2002	base	0.005	ND(0.036)	ND(0.036)	ND(0.36)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)	ND(0.036)
			SENSON SERVICES	CAND COSSIN	图的自己问题	ENDIES DE	WINDOWS W	CONTRACTOR OF THE PARTY.	MAD GROOM	END (OCCUPATE	STORY OF THE
H-10	07/31/2002	base	0.157	ND(0.042)	ND(0.042)	ND(0.42)	ND(0.042)	ND(0.042)	NO(0.042)	ND(0.042)	ND[0.042)
H-12	07/31/2002	base	0.804	ND(0.039)	ND(0.039)	ND(0.39)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)	ND(0.039)
H-4	08/01/2002	base	0.004	ND(0.035)	ND(0.035)	ND(0.35)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0.035)
H-8	08/01/2002	base	0.008	ND(0.035)	ND(0.036)	ND(0.35)	NO(0.035)	ND(0.035)	ND(0.035)	ND(0.035)	ND(0,035)
1.2	08/02/2002	sidewall	0.009	ND(0.041)	ND(0.041)	ND(0.41)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)	ND(0.041)
:4	08/02/2002	sidewall	0.246	NO(0.040)	ND(0.040)	ND(0.40)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)	ND(0.040)
I-6	08/02/2002	şidewall	0.246	ND(0.042)	ND(0.042)	ND(0.42)	ND(0.042)	0.049	ND(0.042)	ND(0.042)	ND(0.042)
	208/1920/21	控制 计算	Selection of the select		FULCEOR				製成の可加	透过的速度	是政治训练
H-14	08/14/2002	base	0.0	ND(001.8)	ND(001.8)	ND(0.018)	ND(001.8)	ND(001.8)	0.0007 J	ND(001.8)	ND(001.8)
F-16	08/20/2002	base	0.007	ND(0.002)	0.00059 J	ND(0.020)	ND(0.002)	ND(0.002)	ND(0.0078)	ND(0.002)	ND(0.002)
F-18	08/20/2002	base	0.084	0.001 J	ND(0.0021)	ND(0.021)	ND(0.0021)	ND(0.0021)	ND(0.0081)	ND(0.0021)	ND(0.0021)
F-21	08/20/2002	sidewall	0.874	ND(0.011)	ND(0.011)	ND(0.110)	ND(0.011)	ND(0.011)	0.0052 J	ND(0.011)	ND(0.011)
F-14	08/20/2002	sidewall	0.719	ND(0.010)	ND(0.010)	ND(0.100)	ND(0.010)	ND(0.010)	D.0048 J	ND(0.010)	ND(0.010)
J-16	08/20/2002	sidewall	0.488	ND(0.010)	ND(0.010)	0.088 J	0.005 J	0.0037 J	ND(0.040)	ND(0.010)	ND(0.010)
I-18	08/20/2002	sidewell	0.008	ND(0.0092)	ND(0.0092)	ND(0.092)	ND(0.0092)	ND(0.0092)	ND(0.036)	ND(0.0092)	ND(0.0092)
H16	08/23/2002	base	0.001	ND(0.0019)	ND(0.0019)	ND(0.019)	ND(0.0019)	ND(0.0019)	ND(0.0019)	ND(0.0018)	ND(0.0019)
H18	08/23/2002	bass	0.036	ND(0.0097)	ND(0.0097)	ND(0.097)	ND(0.0097)	0.012	0.058 J	ND(0.0097)	ND(0,0097)
D14-18	08/23/2002	vertical	0.019	0.00082 J	0.00076 J	ND(0.022)	0.00081 J	0.0015 J	ND(0.0086)	ND(0.0022)	ND(0.0022)
D½-18	08/23/2002	vertical	0.05	ND(0.021)	ND(0.021)	ND(0.210)	ND(0.021)	0.031	ND(0.084)	ND(0.021)	ND(0.021)
D14-20	08/23/2002	vertical	0.734	0.015 J	0.0062 J	ND(0.230)	ND(0 023)	0.019 J	0.056 J	ND(0.023)	0.0085 J
J14-8	08/23/2002	vertical	0.009	ND(0.022)	ND(0.022)	ND(0.220)	ND(0.022)	ND(0.022)	ND(0.022)	ND(0.022)	ND(0.022)
F12	08/28/2002	base	0.006								
F14	08/29/2002	base	0.022								
G20	08/28/2002	pass	0.012								
J-161/2	08/29/2002	bass	0.002				atiuaes	pending			
J12	09/04/2002	base	0.002				,				1
J14	09/04/2002	bese	0.002								
K12	09/04/2002	vertical	0.001								
K14	09/04/2002	vertical	0.013				 			Т	
L	Clean-up Obje		rkg)	0.04	0.1	1.8	0.04	0.1	0.07	0.5	2

Notes: 1- Sample location is the center point of Qe 10 X 10 meter grid for base of excevation samples.

The location designation for vertical samples incleates the actual earnple location.

2 - Base - Composite sample from the base of the excevation (five grab earnples from 100 m2 area).

2 - Base - Composite sample from the base of the exceptation (five grab samples from 100 m2 area). Sidewat - Vertical composite of five grab samples from exceptation side wall.

- 3 The chicatane immunoassay kit does not differentiate between charatane and other cyclodienes such as heptachter, rater to method documentation for information on the relative sensitivities.
- 4 Severn Trent Services (STL), Earth City, Missouri. (Lab qualifiers: ND not detected, J estimated value)
- 5 Bold and italic sample results indicate an exceedance of the clean-up objective (35 IAC 742, Appendix B, Table A).
- a Resample following excavation of additional soil.

EPA Verification Signature Date		
08/20/2002	F-4-VP	base
08/20/2002	F-6-VP	base
08/20/2002	F-10-VP	base
08/20/2002	F-8	base of
08/20/2002	H-10	base
08/20/2002	H-12	base
08/20/2002	H-4	base
08/20/2002	H-8	base
08/20/2002	i-2	sidewall
08/20/2002	I-4	sidewall
08/20/2002	H6	sidewall

ATTACHMENT 3

Air Monitoring Results

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Moi		Week #12 8/13/02-5/2		(High volume)
Date	Time Sampled (minutes)	Effluent Concentration In uCi/ml	Concentration x Sample Min / Day	Comments
8/19/02		0.00=+00	0.00E+00	,
8/20/02	555	0.00=+00	0.00E+00	1
8/21/02	550	5.90E-16	3.25E-13	ł.
8/22/02	232	1 <i>.2</i> 7E-15	2.95E-13	short work day due to rain
8/23/02			0.00E+00	
	2289		6.19E-13	

 $C_{\text{avg}} = \sum T_{\text{e,i}} C_{\text{i}}$ $\sum T_{\text{u}}$ Effluent Concentration (North) = 2.70E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of = 6.76%

4E-15uCi/ml

South Monitor

SCHOOL WAS				
	Time Gampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uçimi	Sample Min / Day	Comments
8/19/02	470	1.25E-14	5.88E-12	
8/20/02	550	0.00E+00	0.00E+00	
8/21/02	549	0.00E+00	0.00 E+ 00	
B/22/02	228	0.00E+00	0.00E+00	short work day due to rain
8/23/02		D.00€+00	0.00E+00	
	2270	1.25E-14	5.88E-12	

 $C_{avg} = \Sigma T_{al} C_{a}$ Time Weighted Weekly ΣT_{a} Effluent Concentration (South) = . 2.69E-15 uGl/ml

Eq A.9 NUREG 1400

Parcentege of Release Limit of = . 64.70%

4E-15uCi/ml

East Monitor

4 18 CT 11				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uci/ml	Sample Min / Day	Comments
8/19/02	455	1.73E-15	7,87E-13	
8/20/02	549	0.00E+00	0.00 E+0 0	
8/21/02	552	9.71E-16	5.36E-13	
8/22/02	225	2.15E-15	4,84E-13	short work day due to rain
8/23/02	488	0.00E+00	0. 00 E+00	
	2287	4.85E-15	1.81E-12	

Com = E Tal C	Time Weighted Weekly	
Σ Τ.	Effluent Concentration (East) =	7.97E-16 uCi/mi
Eq A.9 NUREG 1400	Percentage of Release Limit of =	19.93%
·	4E-15uCi/mi	

West Monitor

11001				
f ———	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
8/19/02	484	0.00E+00	0.00E+00	
8/20/02	570	D.00E+00	0.00E+Q0	
8/21/02	\$57	0.00€+00	0.00E+00	
8/22/02	237	U.00E+00	0.00E+00	short work day due to min
8/23/02	494	0.00E+00	0.00E+00	
	2322	0.00€+00	0.00E+00	

 $C_{exp} = \underline{\Sigma} \underline{T_{AL}} \underline{C_{A}}$ $\underline{\Sigma} \underline{T_{B}}$ Eq.A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (West) = 0.00E+00 uCl/ml

Percentage of Release Limit of = 0.00%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohlo Street Project - Chicago, IL

Week 12 August 19, 2002 - August 23, 2002

ALGEN	14			.108.01		OOL - MU	Arot no	LUUZ									
				total	public	eample		day	after a	nalysis			for	er day a	nelysis		% of Limit
Semple	dete	start	alop	lime	IV min	Appril	date	gross	bkg.	net	Concentration	chife	gross	Mg	net	Concentration	400E-16
ID	eempled	lime	time	sempled	(CFM)	enelyzed	ennlyzed	counts	counts	cpm	ki uClAnt	analyzed	counts	counte	орп	in uClāni	uCt/mi
N1051	8/19/02	8:43 a m	4:20pm	457	45	2.04E+07	8/20/02	88	19	2.3	4.14E-14	8/23/02	18	18	0	0.00E+00	0.00%
S1051	B/19/02	8: 45e m	4:35pm	470	42	1.96E+07	6/20/02	58	18	1.3	2.44E-14	8/23/02	20	18	0.067	1.25E-15	31.24%
E1051	6/19/02	6:50am	4:25pm	455	47	2.12E+07	8/20/02	74	19	1.83333	3.17E-14	8/23/02	21	18	0.1	1.73E-15	43.25%
W1051	8/19/02	6:4 0e m	4:30pm	464	52	2.39E+07	8/20/02	98	19	2.63333	4.04E-14	8/23/02	17	18	D	0.00E+00	0.00%
N1052	8/20/02	8:00em	5:21pm	655	43	2.37E+07	8/21/02	67	18	1.63333	2.53E-14	B/26/02	18	19	Đ	0.00E+00	0.00%
81052	8/20/02	8:10am	5:20pm	550	35	1.01E+07	8/21/02	44	18	0.86667	1.67E-14	8/26/02	18	19	C	0.00E+00	0.00%
E1052	8/20/02	8:07 a m	5:16pm	549	40	2.18E+07	8/21/02	52	18	1.13333	1.91E-14	8/26/02	- 17	19	0	0.00E+00	,
W1052	8/20/02	8:05am	6: 35pm	570	50	2.82E+07	8/21/02	50	18	1.08687	1.38E-14	8/26/02	18	19	0	0.00E+00	1
N1053	8/21/02	8:09em	5:10pm	550	36	2.07E+07	8/22/02	387	20	12.2333	2.17E-13	8/26/02	20	19	0.033	5.90E-16	14.75%
S1053	8/21/02	8:01 a m	5:10pm	549		2.39E+07	8/22/02	304	20	9.46667	1.45E-13	8/26/02	17	19	0	0.00E+00	0.00%
E1053	8/21/02	8:03am	5:1 5pm	552	46	2.52E+07	8/22/02	274	20	8.48867	1.23E-13	8/26/02	21	18	0.067	9.71E-18	24.28%
W1053	8/21/02	7:5 8a m	5:15pm	557	52	2.87E+07	8/22/02	344	20	10.8	1.38E-13	8/28/02	19	19	G	0.00E+00	0.00%
N1054	8/22/02	12:31pm	4:23pm	232	42	9.66E+06	8/23/02	77	18	1.98667	7.47E-14	8/27/02	18	17	0.033	1.27E-15	31.64%
S1054		! 12:37pm	-	228		9.72E+06	8/23/02	78	18	2	7.55E-14	8/27/02	17	17	Ð	0.00E+00	0.00%
E1054		12:35pm	-	225	51	1:14E+07	8/23/02	72	18	1.8	5.80E-14	8/27/02	19	17	0.067	2.15E-15	53.74%
W1054	8/22/02	12:28pm	4:26pm	237	49	1.15E+07	8/23/02	74	18	1.86667	5.85E-14	8/27/02	15	17	0	0.00E+08	0.00%
N1055	8/23/02	7:57 e m	4:12pm	495	48	2.35E+07	8/26/02	17	19	0	0.00E+00	8/28/02	16	19	0	0.00E+00	0.00%
81055	8/23/02	2 8:07am	4:00pm	473	52	2.44E+07	8/28/02	18	19	0	0.00E+00	8/28/02	18	19	0	0.00E+00	0.00%
E1055	8/23/02	? 7:59am	4:05pm	486	48	2.31E+07	8/28/02	22	19	0.1	1.59E-15	8/28/02	19	19	ō	0.00E+00	0.00%
W1056	8/23/02	7:56am	4:10pm	494	41	2.015+07	8/28/02	16	19	Q	0.00E+00	8/28/02	17	19	ō	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Otto Street Project - Chicago, IL

Week 12 August 19 - August 23, 2002

*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

				Flow	Total	Total		Gross	Bkg		Sample
Dete			li .	Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration
Collected	Name	Sample ID	PAM#	(lpm)	Sampled	Volume (ml)	Carte	(30 min)	(30 min)	CPM	(uCi/mi)
8/19/02	Leonard Smith	PAM1087	002-574	2.5	322	805000	8/20/00	10	19	0.00	0.00E+00
8/19/02	Roger Petty	PAM1088	006-234	2.5	320	800000	8/20/02	18	18	0.00	0.00E+00
8/20/02	Glenn Huber	PAM1089	006-234	2,5	132	330000	8/21/02	20	18	0.07	5.19E-14
8/20/02	Roger Petty	PAM1090	002-574	2.5	135	337500	8/21/02	17	18	0.00	0.00E+00
8/21/02	Leonard Smith	PAN1091	002-574	2.5	395	967500	8/22/02	28	20	0.27	6.93E-14
8/21/02	Reger Petty	PAM1092	002-766	2.5	420	1050000	8/22/02	22	20	0.07	1.63E-14
8/23/02	Glenn Huber	PAM1093	002-766	2.5	135	337500	8/26/02	18	19	0.00	8.00E+00
8/23/02	Roger Petty	PAM1094	002-574	2.5	285	712500	8/26/02	16	19	0.00	0.00E+00

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information. Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL

Week 12 August 19 - August 23, 2002

 ***Note: All samp	les on this page w	ete analyzed affi	er 4 days to allow for	thorlum daughter decay
Flov	v Total	Total	Gross	Bkp Sample

Dete				Flow	Total	Total	A a a b und a	Gross	Bkg	Bb-4	Sample	% of
Dete	40			Rate	Time	Sample	Analysis	Counts	Counts		Concentration	DAC
Collected		Sample ID		(iptn)	Sempled	Volume (mi)		(30 min)				
8/20/02 (Glenn Huber	PAM1089	006-234	2.5	132	330000	8/26/02	10	19	0.00	0.00E+00	7000,0
8/21/02 L	.sonard Smith	PAM1091	002-574	2,5	395	967500	6/26/02	17	19	0.DO	0.00E+00	0,00%
8/21/02 F	Roger Petty	PAM1092	002-788	2.5	420	1050000	8/26/02	18	19	0.00	0.00E+00	0.00%
	• • •											

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/mi

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

AUG-30-2002 16:33

STS CONSULTANTS, LTD.

Consulting Engineers and Environmental Scientists

750 Corporate Woods Parkway

Vernon Hills, Illinois 60061

Phone:

(847) 279-2500

Fax:

(847) 279-2510

Date: August 30, 2002

Total Number of Pages, Including Cover: 16

FAX TRANSMITTAL COVER SHEET PLEASE DELIVER THE FOLLOWING PAGES

NAME:

Mr. Fred Micke, Ms. Verneta Simon

Tim Ramsey Harold Holmberg

Mark Krippel, Bernie Bono Tom Pabian, Terry McKay

COMPANY:

U.S. Environmental Protection Agency

Piper Rudnick

Kerr-McGee, Oklahoma City Kerr-McGee, West Chicago

Capri Capital

FAX NUMBER(S):

312-353-9176 312-630-7350 405-270-3787 630-231-3990 312-335-9365

FROM:

Rich Berggreen

MESSAGE:

Attached please find the weekly progress report for the 341 E.

Ohio Street site. Please call with any questions.

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL (847) 279-2500 IMEDIATELY IMPORTANT: This facsimile is intended only for the use of the individual(s) or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United State Postal Service. Thank you.



STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153 voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

August 28, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE:

16.1

Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 113

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 19 August to 23 August 2002 and the work expected during the week of 26 August to 30 August 2002. For location reference, site maps showing gridlines are included as Attachment 1.

Work Completed During 19 August to 23 August 2002

1. Completed twelfth week of removal action field activities. Removal action activities consisted of Phase I/Area 1 buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation in Areas 1 and 2. Phase II excavation was performed in 18-inch lifts in portions of Areas 1 and 2. Removal action activity/quantity summanes:

a. Radiological material excavation and loading

	Previous Total	Week of 8/19 - 8/23/02	Total To-Date
Containers	232	14	246

- Verification surveys were performed following removal of radiological-impacted soils.
 - a. Successful Phase I Exclusion Zone Area 2 verification areas

Verification Date	Grid Line	Grid Line
8/21/02	I – 1.5	9 - 12

b. Successful Phase II Final verification areas

THE TOTAL PROPERTY OF THE PROP										
Verification Date	Grid Line	Grid Line								
8/21/02	E-G	11 - 21								

Figures 1a and 1b show the exclusion zones that have been remediated and for which removal verification sign-off has been received from USEPA. Figure 1a shows the exclusion zones encountered and remediated in Phase 1 work. Figure 1b shows the exclusion zones from Phase II. Figure 2 shows the areas which have received final verification sign-off for Phase II, which confirms no further remediation of radiological impacts is required for these areas.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 113 August 28, 2002 Page 2

- 3. Pesticide-impacted soils identified from previous soil borings and recent field sampling was excavated from portions of Area 1 and 2 where Phase 1 radiological-impacted soil removal was previously completed. Pesticide-impacted soils were managed, transported, and disposed in accordance with the Work Plan. Discretionary sampling and field immunoassay testing of suspected pesticide-impacted soils were performed to guide excavation of the pesticide-impacted soils.
- 4. STS performed pre-verification sampling and field immunoassay testing on the in-situ soils exposed in the excavation following removal of pesticide-impacted soils. The location of the pre-verification samples, the results of the field immunoassay and where applicable laboratory tests are presented in Attachment 2.

Pesticide Verification Signoffs were received from USEPA for the following locations:

Pesticide Verification Surveys USEPA Signoff

Verification Signoff Date	Grid Location	Floor/Wall
8/20/02	F-4-VP	base
8/20/02	F-6-VP	base
8/20/02	F-10-VP	base
8/20/02	F-8	base
8/20/02	H-10	base
8/20/02	H-12	base
8/20/02	H-4	base
8/20/02	H-8	base
8/20/02	I-2	sidewall
8/20/02	[-4	sidewall
8/20/02	I-6	sidewall

A figure will be provided with future weekly reports that illustrates those areas that have received pesticide verification sign-off from USEPA.

- 5. Area and personal air monitoring were performed. Results for the week of 19 August to 23 August 2002 will be included in next week's report. Results for the weeks of 12 August to 16 August, 2002 are included in Attachment 3. No exceedances of allowable limits were measured.
- 6. STS received a letter from USEPA dated August 22, 2002, approving the Amended Work Plan Revision request wherein Phase I and Phase II activities can be completed in Area 2 before proceeding to Area 3, and Phase I and Phase II activities can be completed in Area 3 before proceeding to Area 4.

Work Planned for 25 to 30 August 2002

- Complete Phase I and Phase II removal of radiological-impacted soil in the eastern portions of Area 1. Begin Phase I and Phase II removal of radiological-impacted soil in Area 2. Backfilling of completed Phase II sign-off areas in Area 1 will continue, so as to provide permanent staging areas for operations in Areas 2, 3 and 4.
- 2. Continue Phase I and Phase II removal in Area 2.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 113 August 28, 2002 Page 3

- 3. Continue excavation and removal of pesticide-impacted soils from Area 1. Anticipate completion of pesticide removal week of 27 to 30 August 2002. Additional discretionary sampling of in-situ soils and field pesticide analysis using the immunoassay test procedure will be performed. Additional pre-verification and verification sampling and analyses will be performed as pesticide-impacted soil removal is completed.
- 4. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.
- 5. Following a determination as to the need for dewatering in Area 4, an application for discharge permit from the Chicago Department of Sewers may be finalized and delivered to the City in the next two to three weeks.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G.

Senior Project Engineer

Attachments:

Attachment 1 Site Maps

Attachment 2 Pesticide Pre-Verification/Verification Test Data

Attachment 3 Air Monitoring Results for Week 12 to 16 August 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

ATTACHMENT 1

Site Maps

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6/26/02 캃헕

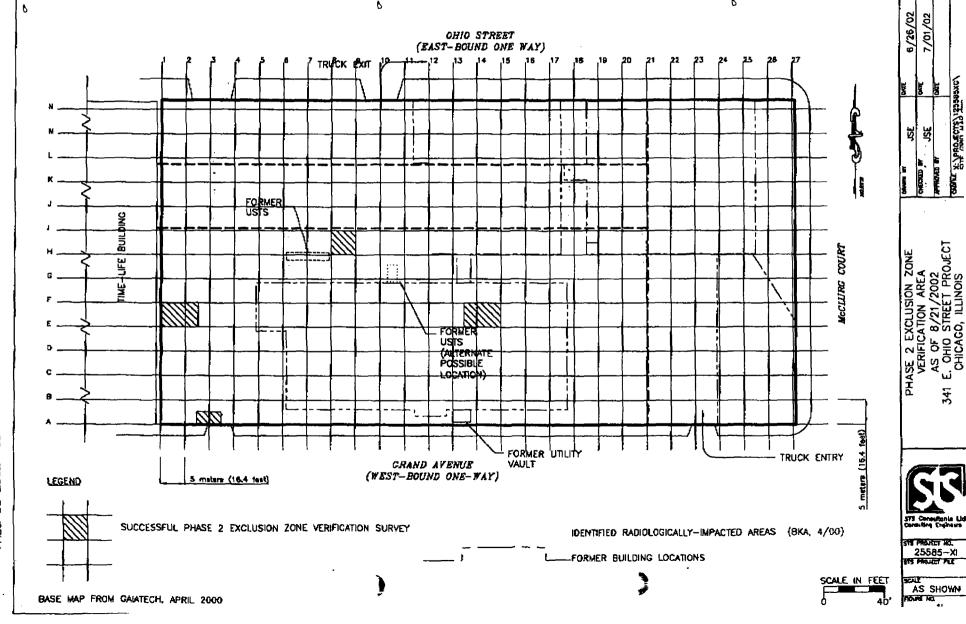
PHASE 1 EXCLUSION ZONE
VERIFICATION AREA
AS OF 8/21/2002
341 E. OHIO STREET PROJECT
CHICAGO, ILLINOIS

TRUCK ENTRY

SCALE IN FEET

815 PROJECT NO. 25585—XI 515 PROJECT PLE

AS SHOWN FICURE NO.

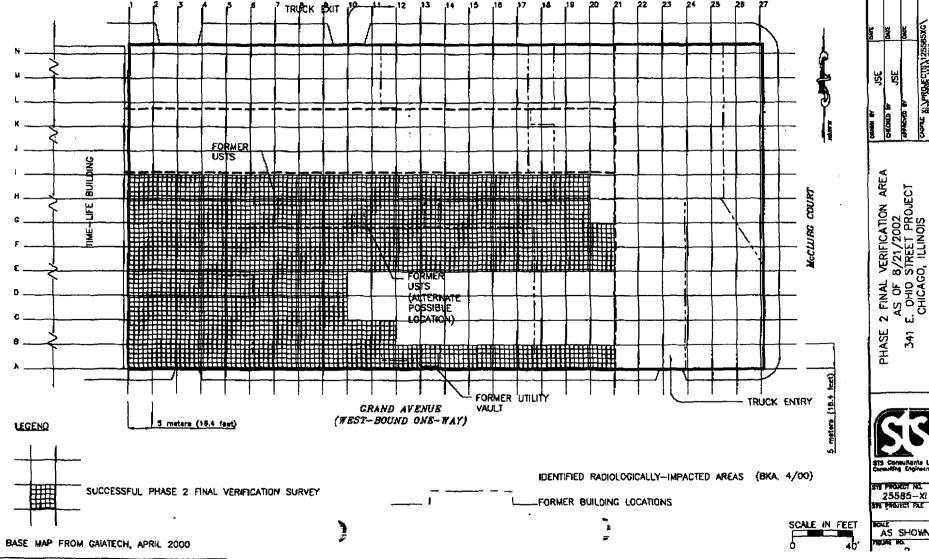


STS



7/01/02 6/26/02

AS SHOWN



OHIO STREET (EAST-BOUND ONE WAY)

ATTACHMENT 2

Pesticide Pre-Verification/Verification Test Data

ATTACHMENT 2								
Date of Pre-Verification Sampling/ Analysis	Location (Center of 10m x 10m Sampling Area)	Immunoassay Test Result	Action	Laboratory Test Results	Action			
8/13/02	H-6	Clean	Submit sample for laboratory verification	Pending				
8/14/02	H-14	Clean	Submit sample for laboratory verification	Pending				
8/20/02	F-16	Clean	Submit sample for laboratory verification	Pending				
8/20/02	F-18	Clean	Submit sample for laboratory verification	Pending				
8/20/02	F-21 v *	Clean	Submit sample for laboratory verification	Pending				
8/20/02	F-14 v	Clean	Submit sample for laboratory verification	Pending				
8/20/02	!-16 v	Clean	Submit sample for laboratory verification	Pending				
8/20/02	I-18 v	Clean	Submit sample for laboratory verification	Pending				
8/23/02	H-16	Clean	Submit sample for laboratory verification	Pending				
8/23/02	H-18	Clean	Submit sample for laboratory verification	Pending				
8/23/02	D.5-16 v	Clean	Submit sample for laboratory verification	Pending				
8/23/02	D.5-18 v	Clean	Submit sample for laboratory verification	Pending				
8/23/02	D.5-20 v	Clean	Submit sample for laboratory verification	Pending				
8/23/02	J.5-8 v	Clean	Submit sample for laboratory verification	Pending				

^{*} v = indicates vertical sidewall sample

ATTACHMENT 3

Air Monitoring Results for Week 12 to 16 August 2002

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Monitor		Week #11 8/12/02-8/1	16/02	(High Volume)		
Date	(minutes)	Effluent Concentration In uCi/ml	Concentration x Sample Min / Day	Comments		
8/12/02	564	0.00E+00	0.00E+00			
8/13/02	562	0.00E+00	0.00E+00			
8/14/02	560	0.00E+00	0.00€+00			
8/15/02	555	0.00E+00	0.00E+00	}		
8/16/02	488	0.00E+00	0.00E+00			
	2729	0.00E+00	0.00E+00			

 $C_{\text{trig}} = \underline{\Sigma T_{\text{a}} C_{\text{c}}}$ ΣT_{a} Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (North) = 0.00E+00 uclimit

Percentage of Release Limit of = 0.00%

4E-15uC/mi

South Monitor

				· · · · · · · · · · · · · · · · · · ·
·	Time Sampled	Effluent Concentration	Concentration x	
Date			Sample Min / Day	Comments
8/12/02	560	0.00E+00	0.00E+00(
8/13/02	555	1.48E-15	8.21E-13	
8/14/02	558	0.00€+00	0.00E+00	•
8/15/02	552	0.00 E+0 0	0.00E+00	
8/16/02	487	0.00E+00	0.00E+00	
	2712	1.48E-15	8.21E-13	

C_{mg} = ΣT₋₁C₂

ΣT_a

Effluent Concentration (South) = 3.03E-16 uCl/ml

Eq.A.9 NURSG 1400

Percentage of Release Limit of = 7.57%

4E-15uCl/ml

East Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml_	Sample Min / Day	Comments
8/12/02	564	0.00€+00	0.00E+00	
8/15/02	558	0.00E+00	0.00€+00	
8/14/02	563	0.00E+00	0.00E+00	·
8/15/02	The state of the s	0.00E+00	0.00E+00	
8/16/02		_		
	2720		6.51E-13	

 $C_{mig} = \underline{\Sigma} T_{N_i} C_i$ Time Weighted Weekly $\underline{\Sigma} T_{\delta}$ Effluent Concentration (East) = 2.30E-16 uCVml

Eq A.9 Nurses 1400 Percentage of Release Limit of = 5.98%

4E-15uCimi

West Monitor

AAMON WANT	****	Effluent Concentration	Concentration x	
Date			Sample Min / Day	Comments
8/12/02	564	9.11£-16	5.14E-13	
8/13/02	562	1.32E-15	7.42E-13	
8/14/02	584	0.00E+00	0.00E+00	
8/15/02	-		1	
8/18/02	B = -			
	2732	2 23F-15		

 $C_{mg} = \sum T_{A_1} C_1$ $\sum T_{a_2}$ Eq. A.9 NUREG 1400 Time Weighted Weekly

Effluent Concentration (West) = 4.40E-16 uCt/ml

Percentage of Release Limit of = 11.49%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 11 August 12, 2002 - August 18, 2002

TTOOK	1 7			L cold in	12 12)	1002 - AU	guer 10										
			1	tofal	cubb			dej		nalysia			for	H day a	nelysie)	% of Limit
Sample	data	adari .	stop	time	tt/min	volume	date	gross	bieg	net	Concentration	debe	Biote	big	net	Concentration	4.00E-15
0	balgmee	time	time	parapled	(CFM)	anelyzed	ensityeed	counte	counts	срл	in uosmi	ensilyzed	counts	counts	cprn	in excitati	UCHTH
N1048	8/12/02	8:03am	5:27pm	584	41	2.20E+07	8/13/02	472	17	15.1687	2.43E-13	8/18/02	20	20	0	0.00E+80	0.009
31046	8/12/02	8: 05em	5:25pm	560	45	2.50E+07	8/13/02	353	17	11.2	1.64E-13	8/18/02	16	20	O	0.00£+00	0.009
E1048	B/12/02	8:04 am	5:28pm	584	44	2.48E+07	8/13/02	277	17	8.88667	1.20E-13	8/16/02	20	20	0	0.00E+00	0.009
N1048	8/12/02	8:01 a m	5:25pm	564	48	2.68E+07	8/13/02	450	17	14.4333	1.97E-13	8/18/02	22	20	0.067	9.11E-16	22.789
N1047	8/13/02	8:03 em	5:25pm	582	43	2.30E+07	8/14/02	286	16	. 8	1.38E-13	8/19/02	10	18	Ð	0.00E+00	0.009
81047	8/13/02	8:10em	5:28pm	655	30	1.85E+07	8/14/02	234	18	7.26867	1.81E-13	8/19/02	20	18	0.087	1.485-15	37.039
E1047	8/13/02	8:12am	5:30pm	558	40	2.21E+07	8/14/02	218	16	0.73333	1.12E-13	8/19/02	18	18	0	0.00E+00	0.009
W1047	8/13/02	8:05am	6:27pm	582	50	2.78E+07	8/14/02	219	16	6.76567	8.91E-14	8/19/02	21	18	0.1	1.32E-15	32,929
N104B	8/14/02	8:00am	5:20pm	560	46	2.55E+07	8/15/02	107	22	2.83333	4.07E-14	8/19/02	17	18	0	0.00E+00	0.005
S1048	8/14/02	8:10am	5 :28pm	558	47	2.60E+07	6/15/02	R9	22	2.56667	3.82E-14	8/19/02	15	18	0	0.002+00	Q.009
E1048	8/14/02	8:02am	5:25pm	563	50	2.79E+07	8/15/02	108	22	2.8	3. 58E-1 4	8/19/02	18	18	0	0.00E+00	0.009
W1048	8/14/02	8:00am	5:24pm	564	53	2.98E+07	8/15/02	84	22	2.06667	2.56E-14	8/19/02	17	18	0	0.50E+ 0 0	
N1049	8/15/02	8:00am	5:15pm	555	52	2.86E+07	8/18/02	237	20	7.23333	_			19	-	0.00E+00	
B1049	8/15/02	8:03am	5: 15 pm	552	47	2.57E+07		-		2.63333	3.78E-14	9		19	_	9.00E+00	
E1049	6/15/02	5:02em	5:15 pm	563		1.92E+07	8/16/02	194	20	5.8	1.11E-13	8/20/02	18	19	0	0.000=+00	
VV1049	8/15/02	8:02em	5:15pm	553	52	2.85E+07	8/18/02	198	20	5.93333	7.63E-14	8/20/02	19	19	0	0.00E+00	
N1059	\$/15/02	7:69em	4:07pm	488	45				-	_				18	_		
61050	6/16/02	8:00am	4:07pm	487	38	1.83E+07	8/19/02	21	18	0.1					Q	0.002+00	
E1060	8/18/02	6:03am	4:05pm	492	38	1.82E+07	8/19/02	18	f8	_		4			0.067	1.358-15	
W1050	8/16/02	8:00em	4:09pm	489	47	2.28E+07	8/19/02	20	18	0.06887	1.07E-15	8/21/02	17	18	0	0.00E+00	0,00

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohlo Street Project - Chicago, IL

Week 11 August 12 - August 16, 2002

• , , mass some an area.	
	*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

Date Collected	Name	Sample ID	PAM#			Total Sample Volume (ml)		Gross Counts (30 min)	Bkg Counts (30 min)	Net CPM	Sample Concentration (uCi/ml)
	Leonard Smith	PAM1085	002-574	2.5				17	18	0.00	
8/16/02	Roger Petty	PAM1088	002-766	2.5	220	550000	8/19/02	18	18	0.00	0.00E+0
			•						•		
										-	
				+ 2						:	
										•	

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis.

See attached 4 Day Analysis Form for Occupational Dose Limit Information.

9

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL.

Week 11 August 12 - August 16, 2002

***Note: All samples on this	: page were analyzed after 4 dg	ys to allow for thorium daughter decay

Date Collected	Name	Semple (0	PAM#	Flow Rate (ipm)	Total Time Sampled	Total Sumple Volume (mi)	Analysia Data	Gross Counts (30 min)	Blig Counts (30 min)		Sample Concentration (uCi/ml)	% of DAC
O 4 Day Analysis Required - All Day After Counts at Sackground Levels												
				•								

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/mi

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

0

STS Consultants, Ltd.

750 Corporate Woods Farkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

11 +7



FACSIMILE TRANSMISSION

Date:	August 22, 2002			
То:	Fred Micke/Vemeta Simon	USEPA		Fax#: 312-353-9176
	Timothy Ramsey	Piper Rudnick		Fax#: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax#: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax#: 312-335-9365
Pages	being transmitted, incl. Cover			
CC:		Fax No.:		
From:	John Esser	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urgei	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Mess	age:			

IMPORTANT: This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.

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STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153

voice 847-279-2500 fax 847-279-2510 www.stsconsultants.com

August 22, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE:

Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 111

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the two weeks of 5 August to 9 August 2002 and 12 August to August 16, 2002 and the work expected during the week of 19 August to 23 August 2002. For location reference, a site map showing gridlines is attached.

Work Completed During 5 August to 16 August 2002

1. Completed tenth week of removal action field activities. Removal action activities consisted of Phase I/Area 1 buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Phase II excavation was performed in 18-inch lifts in portions of Area 1. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Week 8/5/02 - 8/9/02	Total To-Date 8/9/02
Containers	224 *	2	226
		Week 8/12/02 - 8/16/01	
Containers	226	6	232

^{*} previously reported as 226

2. Verification surveys were performed following removal of radiological-impacted soils.

a. Successful Phase II Exclusion Zone verification areas

Verification Date	Grid Line	Grid Line
8/7/02	E – F	1 – 2.5
8/7/02	A – A.5	2.8 - 3.5
8/7/02	H-1	8 – 10
8/7/02	E-F	13.5 - 15

b. Successful Phase II Final verification areas

Verification Date	Grid Line	Grid Line
8/7/02	A – B	1 – 15
8/8/02	E-G	1-3
8/8/02	G-1	1 – 15
8/8/02	A – B	15 – 21
8/15/02	G-1	15 - 20

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 112 August 22, 2002 Page 2

- 3. Pesticide-impacted soils identified from previous soil borings and recent field sampling were excavated from portions of Area 1 where Phase 1 radiological-impacted soil removal was previously completed. Pesticide-impacted soils were managed, transported, and disposed in accordance with the Work Plan. Discretionary sampling and field immunoassay testing of suspected pesticide-impacted soils were performed to guide excavation of the pesticide-impacted soils.
- 4. STS performed pre-verification sampling and field immunoassay testing on the in-situ soils exposed in the excavation following removal of pesticide-impacted soils. The location of the pre-verification samples, the results of the field immunoassay and where applicable laboratory tests are presented in Attachment 2.
- Area and personal air monitoring were performed. Results for the week of 12 August to 16
 August 2002 will be included in next week's report. Results for the weeks of 29 July to 2 August
 and 5 August to 9 August, 2002 are attached. No exceedances of allowable limits were
 measured.
- STS received a letter from USEPA dated July 7, 2002 (should be dated August 7, 2002) indicating USEPA will provide verification sign-off on pesticide removal upon receipt of preverification immunoassay data and laboratory analytical results.
- 7. STS, TRS and USEPA met with local citizens at the Chicago Department of Environment offices on August 8, 2002. Discussions included dust control efforts, truck tarping, air sampling data and project schedule.
- 8. STS conducted a sump pit dewatering test in Area 4 to evaluate dewatering options. No areas of sufficient depth to require dewatering were encountered. Available data suggests dewatering may not be required to complete Phase II in Area 4.

Work Planned for 19 to 23 August 2002

1 16

- 1. Continue Phase I removal of radiological-impacted soil in the eastern portions of Area 1. Begin Phase I removal of radiological-impacted soil in Area 2. Backfilling of completed Phase II sign-off areas in Area 1 will continue, so as to provide permanent staging areas for operations in Areas 2, 3 and 4.
- STS will prepare a request to USEPA to allow Phase I followed by Phase II work in Area 2 prior to proceeding with Phase I work in Area 3. This request will help minimize dust and facilitate traffic movement.
- 3. Continue Phase II removal in Area 1.
- 4. Continue excavation and removal of pesticide-impacted soils from Area 1. Additional discretionary sampling of in-situ soils and field pesticide analysis using the immunoassay test procedure will be performed. Additional pre-verification and verification sampling and analyses will be performed as pesticide-impacted soil removal is completed.
- 5. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 112 August 22, 2002 Page 3

Following a determination as to the need for dewatering in Area 4, an application for discharge permit from the Chicago Department of Sewers may be finalized and delivered to the City in the next two to three weeks.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

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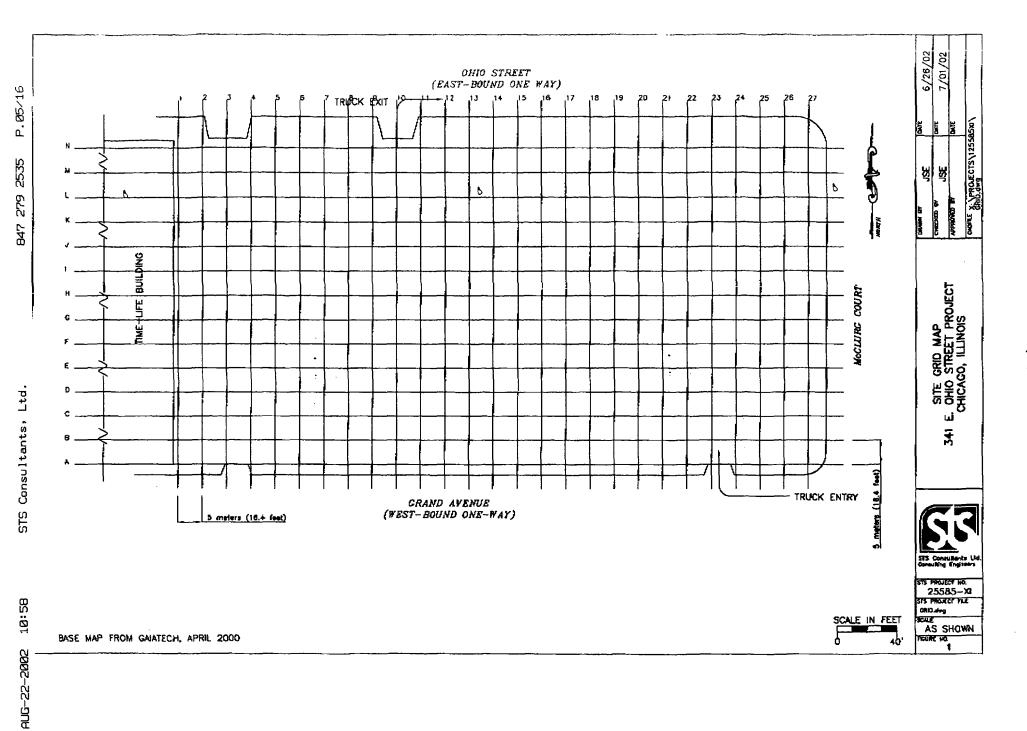
Senior Project Engineer

Attachments: Site Map

Air Monitoring Results for two weeks 29 July to 9 August 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

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Date of Pre-Verification	Location (Center of 10m x	Immunoassay Test Result	Action	Laboratory Test Results	Action
Sampling/ Analysis	10m Sampling Area)	10011100011	Action	Toctification	
7/31/02	F-8	Clean	Submit sample for	Clean	Submit form for
			laboratory verification	5155	USEPA sign-off
7/31/02	H-6	Clean	Submit sample for	Above limit	Additional excavation
			laboratory verification		and repeat samplin
7/31/02	H-8	Above Limit	Additional excavation		
	1	1	then repeat sampling		
7/31/02	H-10	Clean	Submit sample for	Clean	Submit form for
		1	laboratory verification]	USEPA sign-off
7/31/02	H-12	Clean	Submit sample for	Clean	Submit form for
		[laboratory verification		USEPA sign-off
7/31/02	H-14	Above Limit	Additional excavation		<u></u>
			then repeat sampling	i	
8/1/02	H-4	Clean	Submit sample for	Clean	Submit form for
			laboratory verification		USEPA sign-off
8/1/02	H-8 (repeat)	Clean	Submit sample for	Clean	Submit form for
			laboratory verification		USEPA sign-off
8/1/02	H-14	Above Limit	Additional excavation		
			then repeat sampling		
8/2/02	I-2	Clean	Submit sample for	Clean	Submit form for
			laboratory verification		USEPA sign-off
8/2/02	1-4	Clean	Submit sample for	Clean	Submit form for
			laboratory verification		USEPA sign-off
8/2/02	1-6	Clean	Submit sample for	Clean	Submit form for
			laboratory verification		USEPA sign-off
8/13/02	H-6 (repeat)	Clean	Submit sample for	Pending	
			laboratory verification		
8/14/02	H-14 (repeat)	Clean	Submit sample for	Pending	-
		<u> </u>	laboratory verification		
8/14/02	1-16	Clean	Submit sample for	Pending	
	<u> </u>	·	laboratory venfication		
8/14/02	I-18	Clean	Submit sample for	Pending	
	1		laboratory verification	}	

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

				(High Volume)
Date	Time Sampled (minutes)	Effluent Concentration in uCi/m!	Concentration x Sample Min / Day	Comments
7/29/02	570	4.16E-16	2.37E-13	
7/30/02	528	1.59E-15	8.40E-13	•
7/31/02	543	0.00E+00	0.00E+00	
8/1/02	522	0.00E+00	0.00E+00	
8/2/02	560	0.00E+00	0.00E+00	
	2723	2 01E-15	1 ORE. 12	

$C_{\text{exg}} = \sum_{i} T_{\text{exi}} C_{i}$	Time Weighted Weekly	
ΣT	Effluent Concentration (North) =	3.96E-16 uCi/ml
Eq A.D NUREG 1400	Percentage of Release Limit of =	V.88%
	AE 4E MAIN	

South Monitor

	Time Sampled	Effluent Concentration	Concentration x			
Date	(minutes)	in uCl/ml	Sample Min / Day	Comments		
7/29/02	499	0.00E+00	0.00E+00			
7/30/02	554	8.09E-16	4.48E-13			
7/31/02	528	1.56E-15	8.24E-13			
8/1/02	513	1.14 <u>E</u> -15	5.85E-13			
8/2/02						
	2050	9 545 46	1 98E-12			

$C_{\text{end}} = \Sigma T_{A} C_{A}$	Time Weighted Weskly	
Σ Τ.	Effluent Concentration (South) =	7.91E-16 uCVml
Eq A.9 NUREG 1400	Percentage of Release Limit of =	17.52%
·	AF-15uCilml	

East Monitor

ESSI ATVIII				
	Tirne Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/mi	Sample Min / Day	Comments
7/29/02	579	1.21E-15	7.01E-13	•
7/30/02	552	0.00E+00	0.00E+00	
7/31/02	I .	0.00E+00	0.00E+00	
8/1/02	(0. 00 E+00	0.00€+00	
8/2/02	.	1		
	2744	4 24E 45	7.01F-19	

$C_{\text{ext}} = \sum T_{e,i} C_{i}$	Time Weighted Weekly	
Σ Τ,	Effluent Concentration (East) =	2.56E-19 uCi/mi
Eq A.9 NUREG 1400	Percentage of Release Limit of =	6.38%
•	4F-15uCilml	

West Manitor

Date	1	Effluent Concentration in uCl/ml	Sample Min / Day	Comments
7/29/02	543	0.00€+00	0.00E+00	<u> </u>
7/30/02	555	1.45E-15	8.05E-13	
7/31/02	543	5.16E-16	2.80E-13	
8/1/02		g.ggE+ 9 g	0.00€+90	
8/2/02	1			
	2721	1 97F-15	1 08F-12	

Con E TILC $\Sigma\,T_{\bullet}$

Eq A.9 HUREG 1400

Time Weighted Weekly

Effluent Concentration (Mest) =Percentage of Rolesse Limit of =

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 9

July 29, 2002 - August 2, 2002

LAGOV :				very A	7, 200	- myu	,										
				total	cubic	estubje		day	after a	naiyels			foc	a day e	nalysia		% of Limit
Sample	della	stari	step	time	(V mbn	emulov	(timb)	prose	big	rvet	Concentration	date	grows	bkg	net	Concentration	4.00E-15
0	sempled	time	time	beignee	(CFM)	anelyzed	analyzad	counts	counts	cpm	in uCilmi	analyzad	counts	counts	apm	in uÇVmi	uCl/ml
N1038	7/29/02	6:10am	5:40pm	570	52	2.94E+07	7/30/02	221	18	8.76867	8.45E-14		18	17	0.033	4.16E-18	10.409
61036	7/29/02	9:16am	5:35 pm	499	62	3.07E+07	7/30/02	191	18	5.76667	B.90E-14	6/2/02	16	17	Q	0.00E+00	0.009
E1036	7/28/02	8:05am	5:44pm	579	53	3.04E+07	7/30/02	220	18	6.73333	8.12E-14	6/2/02	20	17	0.1	1.21E-15	30.149
W1036	7/28/02	8:31em	5:34pm	543	6 5	2.98E+07	7/30/02	267	16	8.3	1.03E-13	8/2/02	18	17	0	0.00E+00	0.00%
N1037	7/30/02	8:07am	4:55pm	528	44	2.30E+07	7/31/02	82	. 17	2.18667	3.45E-14	8/5/02	22	19	0.1	1.50E-15	39.81%
61037	7/30/02	8:10am	5:24pm	554	55	3.02E+07	7/31/02	75	17	1.93333	2.35E-14	8/5/02	21	19	0.067	8.09E-16	20.249
£1037	7/30/02	8:08am	5:20pm	552	43	2.35E+07	7/31/02	49	17	1.06667	1. 0 6E-14	8/5/02	18	18	0	0.00E+00	0.009
W1037	7/30/02	6:03am	5:1 8pm	555	46	2.53E+07	7/31/02	72	: 17	1.83333	2.88E-14	8/5/02	22	19	0,1	1.45E-15	36.239
N1038	7/31/02	8:10am	6:13pm	543	51	2.74E+07	8/1/02	183	15	6.56887	7.44E-14	8/5/02	17	19	0	0.00E+00	0.009
S1038	7/31/02	8:17am	5: 05pm	526	45	2.35E+07	8/1/02	185	16		8.77E-14	8/5/02	22	19	0.1	1,58E-15	38.939
E1038	7/31/02	8:15em	5:0 8 pm	533	48	2.54E+07	8/1/02	216	18	0.00067	9.84E-14	8/5/02	18	19	0	0.00E+00	0.009
W1038	7/31/02	9:00em	5:0 0 pm	543	44	2.37E+07	8/1/02	255	16	7.96667	1.23E-13	8/5/02	20	19	0.033	5,16E-18	12.809
N1039	8/1/02	7:58am	4:40pm	522	50	2.59E+07		2 160	17	4.78667	6.78E-14	8/6/02	20	22	. 0	0.00E+00	0.001
\$1039	8/1/02	8:02am	4:36pm	513	42	2.14E+07	8/2/02	156	17	4.6	7.90E-14	8/8/02	24	22	0.067	1.14E-15	28.829
E1030	8/1/02	2 B:00am	4:41pm	52	44	2.27E+07		2 131	17	3.8	6.13E-14	8/6/02	18	22	. 0	0.00E+00	0.004
W1039	8/1/00	2 8:05em	4:40pm	515	48	-		2 206	17	6.3	9.43E-14	8/8/02	19	22	. 0	0.00E+00	0.004
N1040	8/2/00	2 8:00em	5:20pm	560	47	2.61E+07		2 19	-	-	0.00E+00	8/7/02	: 18	20	0	0.00E+00	0.004
81040	8/2/07	2 B:02e m	6:18pm	566	44			2 22	16	0.1	1.51E-15	B/7/02	! 1 6	20	0	0.00E+08	0.001
E1040	8/2/00	2 8:00am	5:19pm	55	39	2.18E+07	8/5/0	2 16	15) [0.00E+00	8/7/02	18	20	0	0.00E+00	0.009
W1040	8/2/00	2 8:00am	5:2 5 pm	56	5 56	3.14E+07	8/5/0	2 20	1 16	0.3	3.61E-15	8/7/02	20	20	0	0.00E+00	0.009

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis)

Week 9 July 29 - August 2, 2002

341 East Ohio Street Project - Chicago, IL

** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

				Flow	Total	Total		Gross	Bkg		Sample
Date			1	Rate	Time	Sample	Anaiyais	Counts	Counts	Net	Concentration
Collected	Name	Sample ID	PAM #	(ipm)	Sampled	Votume (mi)	Date	(30 min)	(30 min)	CPM	(uCi/mi)
8/1/02	Leonard Smith	PAM1081	006-234	2.5	210	\$25000	8/2/02	19	17	0.07	3.26E-14
8/1/02	Roger Petty	PAM1082	002-675	2.5	390	975000	8/2/02	23	17	0.20	5.26E-14
8/2/02	Leonard Smith	PAM1083	002-768	2.5	155	387500	8/5/02	19	19	0.00	0.00E+00
8/2/02	Roger Pelty	PAM1084	002-574	2.5	305	782500	8/5/02	18	19	0.00	0.00E+00

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis.

See attached 4 Day Analysis Form for Occupational Dose Limit Information.

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL

Week 9 July 29 - August 2, 2002

	***Note: All samples on this page were analy	zed after 4 days to allow for thorium daughter decay
--	--	--

				Flow	Total	Total		Gross	Bkg		Semple	% of
Date		<u>i</u>		Rate	Time	Semple	Analysis	Counts	Counts	Net	Concentration	DAC
Collected	Name	Semple ID	PAM #	(lpm)	Sampled	Volume (mi)		(30 min)	(30 min)	CPM	(uCl/ml)	:
8/1/02	Leonard Smith	PAM1081	008-234	2.5	210	525000	8/8/02	18	22	0.00	0.00E+00	0.00%
6/1/02	Roger Petty	PAM1082	002-675	2.5	390	975000	8/6/02	19	22	0.00	0.00E+00	0.00%
												!
												į
												-

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Ma		Week #10 8/6/02-8/9/	02	(High Volume)			
Date	Time Sampled (minutes)	Effluent Concentration in uCi/mi	Concentration x Sample Min / Day	Comments			
8/5/02	,	1.52E-15					
8/6/02		0.00€+00					
8/7/02	502	0. 00E+0 0		OP.			
8/8/02	566	0.00E+00	,	v			
8/8/02	469	D.00E+00					
	2631	1.52E-15	8.39F-13				

C = E Tac

Time Weighted Weekly

ΣT. Ex A.9 NUREG 1400 Effluent Concentration (North) = 3.19E-16 uCVml Percentage of Release Limit of = 7.97%

4E-15uCVml

South Monitor

SAME INC.				
}	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/mt	Sample Min / Day	Comments
8/5/02	541	0.00E+00	0.00E+00	·
8/8/02	551	0.00E+00	0.00E+00	
8/7/02	502	0.00E+00	0.00E+00	
8/8/02	568	0.00E+00	0,00E+00	
8/9/02		•	6.67E-13	
	2865	1 32F-15	6.67F-13	

 $C_{no} = \sum T_{ni} C_{ni}$

ΣT.

Time Weighted Weekly

2.60E-16 uCi/ml Effluent Concentration (South) =

Eq A.9 NUREG 1400

Percentage of Rolease Limit of = 4E-15uCiAN

6.25%

Fact Monters

1 specif

THAT WALL				
I.		Effluent Concentration		· · · · · · · · · · · · · · · · · · ·
Date	(minutes)	in uCi/mi	Sample Min / Day	Comments
8/5/02	542	0.00E+00	0.00E+00	
8/6/02	551	0.00E+00	0.00E+00	
8/7/02	499	0.00E+00	0.00E+00	
8/8/02		7	1.03E-12	
8/9/02	1		1.09E-12	
	2848		2.11E-12	

 $C_{max} \simeq \sum T_{max} C_{max}$

Time Weighted Weekly 7.90E-16 u/Ci/mi Effluent Concentration (East) =

Eq A.9 NUREG 1400

Percentage of Release Limit of =

19.96%

West Monitor

Date		Effluent Concentration in uCi/ml	Concentration x Sample Win / Day	Comments
8/5/02	544	0.00E+00	0.00E+00	
8/6/02	533	4.21E-18	2.24E-13	
6/7/02	514	1.44E-15	7,40E-13	
8/6/02	573	6.15E-16	3.52E-13	
8/9/02	517	4.68E-16	2,425-13	
	2681	2 94E-15	1 S8F-12	

 $C_{ext} = \Sigma T_{ext} C_{ext}$ Eq A.9 NUREG 1400

Time Weighted Weekly	
Effluent Concentration (West) =	5,81E-16 uCI/mi
Percentage of Release Limit of =	14.54%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 10 August 5, 2002 - August 9, 2002

AAGGK	IV			Augus	_	UZ - AUL	40. 0, 2	_		عفي بيروسور		والمراجع المراجع					
			1	total	Cubic	memple		<u>de</u> j	ofter a	neiyels			fou	r day a	nalysia		% of Limit
Berryte	deta	ablet		time	fild steller	volume	dada	gross	big	net	Concentration	date	groat	blog	ried	Concentration	400E-15
D	permiss	lime	time	esmpled	(CFM)	manyzed	enelyzed	ocente	abunta	opm	in uCMm	analyzed	counts	pounts.	o pen	in uCi/hi]	uCi/ml
N1041	8/5/02	8:08am	5:20pm	552	44	2.41E+07	8/6/02	41	22	0.63333	9.66E-15	8/9/02	21	18	0.1	1.52E-16	28.08%
B1041	6/5/02	8:15em	5:18pm	541	52	2.79E+07	8/6/02	40	22	0.8	7.89E-16	8/9/02	16	18	0	0.00E+00	0.00%
E1041	6/6/02	8:13em	5:15pm	542	42	2.26E+07	8/8/02	33	22	0.35667	5.96E-16	8/9/02	18	18	0	0.00E+00	0.00%
W1041	8/5/02	8:10am	5:14pm	544	42	2.20E+07	8/9/02	58	22	1.48667	2.37E-14	8/9/02	18	18	0	0.00E+00	0.00%
N1042	8/6/02	6:08am	5:10pm	542	48	2.58E+07	8/7/02	40	20	0.88887	9.48E-15	8/12/02	18	21	Ð	0.00E+00	0.00%
81042	8/5/02	7:50em	5:01pm	551	44	2.40E+07	8/7/02	31	50	0.36667	6.60E-16	0/12/02	19	21	٥	0.00E+00	0.00%
E1042	8/8/06	7:55am	5:0 6 pm	551	43	2.85E+07	8/7/02	23	20	0.1	1.56E-15	8/12/02	16	21	0	0.00E+00	0.00%
W1042	8/8/02	8:12am	5:05pm	533	55	2.01E+07	8/7/02	27	20	0.23333	2.04E-15	0/12/02	22	21	0.039	4.21E-18	10.52%
N1043	8/7/02	7:53am	4:15pm	502	48	2.29E+07	8/8/02	35	19	0.63333	6.54E-15	8/12/02	18	21	Û	0.00E+00	0.00%
B1043	6/7/02	7:58am	4:20pm	502	48	2.29E+07	8/8/02	30	19	0.36687	6.87E-15	8/12/02	20	-21	0	0.00E+00	0.00%
E1043	8/7/02	7:56am	4:15pm	499	51	2.52E+07	8/8/02	22	19	0.1	1.45E-15	8/12/02	18	21	Q	0.00E+00	0.00%
W1043	8/7/02	7:61am	4:25pm	514	50	2.55E+07	B/8/02	52	19	1.1	1.58E-14	6/12/02	24	21	0.1	1.44E-15	35.99%
N1044	8/8/02	7:59am	5:25pm	566	58	3.14E+07	8/9/02	79	18	2.03333	2.37E-14	8/13/02	17	17	0	0.00E+00	0.00%
81044	6/8/02	8:04am	5:30pm	566	43	2.41E+07	8/9/02	60	18	1.06667	1.62E-14	8/13/02	: 16	17	O	0.00E+00	0.00%
E1044	8/8/02	8:01em	5:25pm	564	48	2.68E+07	8/9/02	40	18	0.73333	1.00E-14	8/13/02	21	17	0.133	1.825-16	45.55%
W1044	8/8/02	7:56am	5:29pm	573	35	1.99E+07	6/2/02	. 64	16	1.53333	2.83E-14	8/13/02	18	17	0.033	· 6.16E-16	15.37%
N1046	8/9702	6:01em	3:50pm	489	59	2.37E+07	8/12/02	2 22	21	8.63333	5.18E-18	8/14/02	15	16	0	0.00E+00	0.00%
81045	8/9/02	8:05em	4:30pm	505	37	1.85E+07	8/12/02	20	21	0	0.00E+00	8/14/02	18	16	0.087	1.32E-15	33.00%
E1046	6/9/02	8:234m	4:35pm	492	34	1.86E+07	8/12/02	26	21	0.13333	2.95E-15	B/14/02	19	18	0.1	2.21E-15	55.20%
W1045	8/9/02	7:56am	4:35pm	517	51	2.61E+07	8/12/02	2 24	21	0.1	1.40E-15	8/14/02	! 17	16	0.D33	4.88E-18	11.69%

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis)

Week 10 August 5 - August 9, 2002

341	Fast	Ohio	Street	Site	- Chicago,	扎
JT (CGGI	W714V	A11 A21	-	ALIMAN POL	,

			1101017			S MOIS BILBITZO	u alter 4 de	A2 (O BIION	IOL MOUNT	aaug	mer decay	
				Flow	Total	Total		Gross	Bko		Sample	% of
Date		1		Rate	Time	Sample	Analysis	Counts	Counts	Nat	Concentration	DAC
Collected	Name	Semple ID	PAM #	(ipm)	Sampled	Volume (mi)	Date	(30 min)	(30 min)	CPM	(uCl/mi)	JAC .
											(months)	

NO PAN's During Week of Bibits - 8/8/92

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCl/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis)
341 East Ohio Street Protect - Chicago. IL

Week 10 August 5 - August 9, 2002

341 CESI (NIK) SHOOK LINJOH .	· Other file in the control of the c
	*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

Date Collected	Name	Sample ID	PAM#	Flow Rate (ipm)	Total Time Sampled	Total Sample Volume (ml)	Analysis Date	Gross Counts (30 min)	Bkg Counts (30 min)	Net CPM	Sample Concentration (uCVml)
NO PAM's	During Week of	f 8/5/02 - 8/9	/02								
			· :						· · ·		

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information.



August 5, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 107

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 29 July to 2 August 2002 and the work expected during the week of 5 August to 9 August 2002.

Work Completed During 29 July to 2 August 2002

1. Completed ninth week of removal action field activities. Removal action activities consisted of Phase I/Area 1 buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Phase II excavation was performed in 18-inch lifts in portions of Area 1. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	220	6	226

- 2. Verification surveys were performed following removal of radiological-impacted soils.
 - a. Successful Phase 1 verification areas.

Caccoonar i riasc	Vermoation areas	
Verification Date	Grid Line	Grid Line
8/1/02	Н	19

b. Successful Phase 2 verification areas

Verification Date	Grid Line	Grid Line
8/1/02	E to G	3 to 7
8/1/02	E to G	7 to 11
8/1/02	B to C	12 to 16
8/1/02	B to C	16 to 21

3. Pesticide-impacted soils identified from previous soil borings and recent field sampling were excavated from portions of Area 1 where Phase 1 radiological-impacted soil removal was previously completed. Pesticide-impacted soils were managed, transported, and disposed in accordance with the Work Plan. Discretionary sampling and field immunoassay testing of suspected pesticide-impacted soils were performed to guide excavation of the pesticideimpacted soils.

4. STS performed pre-verification sampling and field immunoassay testing on the in-situ soils exposed in the excavation following removal of pesticide-impacted soils. The location of the pre-verification samples and the results of the field immunoassay test are summarized below.

Date of Pre-Verification Sampling/Analysis	Location (Center of 10m x 10m Sampling Area)	Immunoassay Test Result	Action
7/31/02	F-8	Clean	Submit sample for laboratory verification
7/31/02	H-6	Clean	Submit sample for laboratory verification
7/31/02	H-8	Above Limit	Additional excavation then repeat sampling
7/31/02	H-10	Clean	Submit sample for laboratory verification
7/31/02	H-12	Clean	Submit sample for laboratory verification
7/31/02	H-14	Above Limit	Additional excavation then repeat sampling
8/1/02	H-4	Clean	Submit sample for laboratory verification
8/1/02	H-8	Clean	Submit sample for laboratory verification
8/1/02	H-14	Above Limit	Additional excavation then repeat sampling
8/2/02	l-2	Clean	Submit sample for laboratory verification
8/2/02	1-4	Clean	Submit sample for laboratory verification
8/2/02	1-6	Clean	Submit sample for laboratory verification

- 5. Area and personal air monitoring were performed. Results for the week of 29 July to 2 August 2002 will be included in next week's report. Results for the week of 22 to 26 July 2002 are attached. No exceedances of allowable limits were measured.
- 6. A copy of an STS memorandum explaining excavation and verification sampling procedures for the pesticide-impacted soils was provided to USEPA 31 July 2002.
- 7. STS received a signed QAPP signature page from Argonne National Laboratory.
- 8. The removal action field schedule estimated by STS for the Work Plan included 12 weeks for the removal activities. As of 2 August 2002, 40 days of removal action field work have been performed. Phase I removal activities are nearing completion in Area 1. Based on the work completed to-date and the work remaining to be completed, we anticipate that the removal action field work will extend beyond the originally estimated 12 week duration. If Phase I removal activities in Areas 2, 3, and 4 encounter similar proportions of radiological-impacted soil and similar quantities of concrete foundation elements, walls, footings and floor slabs, as have been encountered in Area 1, then Phase 1 removal activities could continue for another 4 to 6 weeks. This could translate into a 20 to 30-day extension of the original 12-week schedule.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 107 August 5, 2002 Page 3

Work Planned for 5 to 9 August 2002

- 1. Continue Phase I removal of radiological-impacted soil in the eastern portions of Area 1. Begin Phase I removal of radiological-impacted soil in Area 2.
- 2. Continue Phase II removal in Area 1.
- 3. Continue excavation and removal of pesticide-impacted soils from Area 1. Additional discretionary sampling of in-situ soils and field pesticide analysis using the immunoassay test procedure will be performed. Additional pre-verification and verification sampling and analyses will be performed as pesticide-impacted soil removal is completed.
- 4. STS will perform a sump pit dewatering test to evaluate dewatering options. Discharged water will not be discharged to the city sewer, but will be infiltrated on-site.
- 5. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.
- 6. An application for discharge permit from the Chicago Department of Sewers will be finalized and delivered to the City in the next two to three weeks.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Essér, P.E., P.G. Senior Project Engineer

Attachments: Air Monitoring Results for 22 to 27 July 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Moi	n/tor	Week #8 7/22/02-7/20	J/02	(High Volume)
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
7/22/02	491	1.12E-15	5.50E-13	
7/23/02	485	0.00E+00	0.00E+00	
7/24/02	567	0.00E+00	0.00E+00	
7/25/02	562	0.00E+00	0.00E+00	
7/26/02	536	4.70 <u>E-18</u>	2.52E-13	
	2641	1.59E-15	8.02E-13	

 $C_{\text{evg}} = \underline{\Sigma T_{\text{cl}} C_{\text{l}}}$

 $\Sigma T_{\mathbf{k}}$

Time Weighted Weekly

Effluent Concentration (North) = 3.04E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

7.59%

4E-15uCi/mi

South Monitor

	Time Sampled	Effluent Concentration	1	
Date	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in uÇi/ml	Sample Min / Day	Comments
7/22/02	482	0.00E+00	0.00E+00	
7/23/02	476	0.00E+00	0.00E+00	
7/24/02	561	0.00E+00	0.00E+00	
7/25/02	548	0.00E+00	0.00E+00	
7/26/02	531	1.24E-15	6.58E-13	
	2598	1.24E-15	6.58E-13	

 $C_{evp} = \Sigma T_{e,k} C_l$

ΣT

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (South) = 2.53E-16 uCi/mi

Percentage of Release Limit of = 6.34%

4E-15uCl/mi

East Monitor

Cast Mull		Effluent Concentration	Concentration	
Date	(minutes)	in uCI/ml	Sample Min / Day	Comments
7/22/02	489	0.00E+00	0.00E+00	<u> </u>
7/23/02	483	0.00E+00	0.00E+00	
7/24/02	581	0.00E+00	0.00E+00	
7/25/02	554	0.00E+00	0.00€+00	
7/26/02	532	0.00E+00	0.00E+00	
	2619	0.00E+00	0.00E+00	

 $C_{m,g} = \Sigma T_{k,l} C_l$

 ΣT_{\bullet}

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (East) = 0.00E+00 uCi/ml

Percentage of Release Limit of = 0.00%

Percentage of Release Limit of = 4E-15uCi/ml

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/ml	Sample Min / Day	Comments
7/22/02	482	5.33E-16	2.57E-13	
7/23/02	476	5.51E-16	2.62E-13	
7/24/02	536	0.00E+00	0.00E+00	
7/25/02	559	0.00E+00	0.00E+00	
7/26/02	537	0.00E+00	0.00E+00	
	2500	1 ()京年_15	5 10F-13	

 $C_{\text{avg}} = \underline{\Sigma \ T_{\text{a.i.C.}}}$ $\Sigma \ T_{\text{a}}$

Time Weighted Weekly

Effluent Concentration (West) = 2,00E-16 uCl/mi

Percentage of Release Limit of = 5,01%

Eq A.9 NUREG 1400

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicego, IL

Week 8

July 22, 2002 - July 26, 2002

710011	<u> </u>			outl =			-,										
	-			total	cubic	sample		day	after a	nalysis			for	r day a	nalysis		% of Limit
Sample	date	stert	etop	time	fV min	volume	ciate	groes	bkg	net	Concentration	date	groes	bkg	net	Concentration	4.00E-15
מו	Barripled	time	time	sampled	(CFM)	analyzed	analyzedi	counts	counts	cpm	in uCl/mt	analyzed	counts	counts	cpm	in uCi/mi	uCi/mi
N1031	7/22/02	8:04am	4:15pm	491	45	2.19E+07	7/23/02	362	17	11.5	1.93E-13	7/26/02	23	21	0.067	1.12E-15	27.81%
S1031	7/22/02	8:08am	4:10pm	482	44	2.10E+07	7/23/02	337	17	10.0067	1.88E-13	7/26/02	20	21	0	0.00E+00	0.00%
E1031	7/22/02	8:06am	4:15pm	489	41	1.99E+07	7/23/02	339	17	10.7333	1.98E-13	7/26/02	21	21	٥	0.00E+00	0.00%
W1031	7/22/02	8:10em	4:12pm	482	48	2.29E+07	7/23/02	291	17	9.13333	1.48E-13	7/26/02	22	21	0.033	5.33E-18	13.33%
N1032	7/23/02	7:55em	4:00pm	485	59	2.84E+07	7/24/02	23	21	0.06667	8.62E-16	7/29/02	18	21	٥	0.00E+00	0.00%
S1032	7/23/02	7:5 9a m	3:55pm	476	37	1.75E+07	7/24/02	25	21	0.13333	2.80€-15	7/29/02	17	21	0	0.00E+00	0.00%
E1032	7/23/02	7:57am	4:00pm	483	43	2.08E+07	7/24/02	31	21	0.33333	5.94E-15	7/29/02	16	21	0	0.00E+00	0.00%
W1032	7/23/02	8:08am	4:04pm	478	47	2.22E+07	7/24/02	27	21	0.2	3.31E-15	7/29/02	22	21	0.033	5.51E-16	13,78%
N1033	7/24/02	8:05am	5:32pm	567	51	2.87E+07	7/25/02	55	20	1.16667	1.49E-14	7/29/02	16	21	0	0.00E+00	0.00%
S1033	7/24/02	8:10am	5:31pm	581	43	2.39E+07	7/25/02	67	20	1.56667	2.40E-14	7/29/02	17	21	0	0.00E+00	0.00%
£1033	7/24/02	8:10am	5:31pm	561	40	2.22E+07	7/25/02	66	20	1.53333	2,53E-14	7/29/02	19	21	0	0.00E+00	0.00%
W1033	7/24/02	8:04am	5:00pm	536	49	2.60E+07	7/25/02	49	20	0.96867	1.36E-14	7/29/02	20	21	0	0.00E+00	0.00%
N1034	7/25/02	7:59am	5:21pm	562	43	2.39E+07	7/26/02	284	21	8.76667	1.34E-13	7/30/02	15	18	0	0.00E+00	0.00%
S1034	7/25/02	8:02am	5:10pm	548	51	2.77E+07	7/26/02	261	21	8	1.06E-13	7/30/02	18	18	0	0.00E+00	0.00%
E1034	7/25/02	8:01am	5:15pm	554	40	2.20E+07	7/26/02	203	21	6.06667	1.01E-13	7/30/02	16	18	0	0.00E+00	0.00%
W1034	7/25/02	7:58am	5:17pm	559	46	2.55E+07	7/26/02	210	21	6.3	9.06E-14	7/30/02	18	18	0	0.00E+00	0.00%
N1035	7/26/02	7:51am	4:47pm	536	49	2.60E+07	7/29/02	31	21	0.33333	4.70E-15	7/31/02	18	17	0.033	4.70E-16	11.74%
S1035	7/26/02	7:54am	4:45pm	531	58	2.95E+07	7/29/02	34	21	0.43333	5.39E-15	7/31/02	20	17	0.1	1.24E-15	31.10%
E1035	7/26/02	7:58am	4:50pm	532	41	2.165+07	7/29/02	34	21	0.43333	7.35E-15	7/31/02	17	17	0	0.00E+00	0.00%
W1035	7/28/02	7:55em	4:52pm	537	48	2.55E+07	7/29/02	36	21	0.5	7.18E-15	7/31/02	18	17	0	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis)

Week 8 July 22 - July 26, 2002

341 East Ohio Street Project - Chicago, IL

*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

Date Collected	Name	Sample (D	PAM#	Flow Rate (ipm)	Total Time Sampled	Total Sample Volume (mi)	Analysis Date	Gross Counts (30 min)	Bkg Counts (30 min)	Net CPM	Sample Concentration (uCi/ml)
7/22/02	Leonard Smith	PAM1079	002-574	2.5	220	550000	7/23/02	16	17	0.00	0.00E+00
7/22/02	Roger Petty	PAM1080	008-234	2.5	203	507500	7/23/02	19	17	0.07	3.37E-14

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information. Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis)
341 East Ohio Street Site - Chicago, IL

Week 8 July 22 - July 26, 2002

4+1	'Note: All samples or	n this page were analy	zed after 4 days to	allow for thorium day	Johter decay

Date Collected		Sample ID		Flow Rate (Ipm)		Total Sample Volume (ml)			Bkg Counts (30 min)		Sample Concentration (uCi/ml)	% of DAC
7/22/02	R. Petty/W.C.	PAM1080	006-234	2.5	203	507500	7/26/02	19	21	0.00	0.00E+00	0.00%

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml



July 30, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE:

Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 102

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 22 to 26 July 2002 and the work expected during the week of 29 July to 2 August 2002.

Work Completed During 22 to 26 July 2002

1. Completed eighth week of removal action field activities. Removal action activities consisted of Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiologicalimpacted soil excavation and loading for off-site transportation. Phase II excavation was performed in 18-inch lifts in portions of Area 1. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	218	2	220

- 2. Verification surveys were performed following removal of radiological-impacted soils.
 - a. Successful Phase 1 verification areas (see attached figure):

Verification Date	Grid Line	Grid Line
7/23/02	G to 1.5	2 to 4
7/23/02	G to 1.5	4 to 6
7/23/02	G to I.5	6 to 8
7/23/02	G to 1.5	8 to 9
7/23/02	G to I	9 to 11
7/23/02	G to I	11 to 13
7/23/02	E to G	10 to 12

b. Successful Phase 2 verification areas (see attached figure):

Verification Date	Grid Line	Grid Line
7/23/02	C to E	1 to 10
7/26/02	B to C	1 to 12

3. Pesticide-impacted soils identified from previous soil borings and recent field sampling were excavated from portions of Area 1 where Phase 1 radiological-impacted soil removal was previously completed. Pesticide-impacted soils were managed, transported, and disposed in accordance with the Work Plan. Discretionary sampling and field immunoassay testing of suspected pesticide-impacted soils were performed to guide excavation of the pesticide-impacted soils.

4. STS performed pre-verification sampling and field immunoassay testing on the in-situ soils exposed in the excavation following removal of pesticide-impacted soils. The location of the pre-verification samples and the results of the field immunoassay test are summarized below.

Date of Pre-Verification Sampling/Analysis	Location (Center of 10m x 10m Sampling Area)	Immunoassay Test Result	Action
7/26/02	F4	Below limit	Submit sample for laboratory verification analysis
7/26/02	F6	Below limit	Submit sample for laboratory verification analysis
7/26/02	F8	Below limit (marginal)	Additional excavation then repeat preverification sampling
7/26/02	F10	Below limit	Submit sample for laboratory verification analysis
7/26/02	H4	Above limit	Additional excavation then repeat pre- verification sampling
7/26/02	H6	Above limit	Additional excavation then repeat pre- verification sampling
7/26/02	Н8	Above limit	Additional excavation then repeat pre- verification sampling
7/26/02	H10	Above limit	Additional excavation then repeat pre- verification sampling

- 5. Area and personal air monitoring were performed. Results for the week of 22 to 26 July 2002 will be included in next week's report. Results for the week of 15 to 19 July 2002 are attached. No exceedances of allowable limits were measured.
- 6. STS received a letter dated 22 July 2002 from MWRD in response to STS's letter dated 21 June 2002. The MWRD letter provides conditional approval of a one-time discharge permit for planned dewatering activities that may be required during upcoming removal activities in Area 4. The MWRD letter requires STS provide the following prior to any sewer discharge:
 - a. Copies of USEPA verification of radiological soil removal;
 - b. Demonstration that the dewatering system effluent does not contain chlordane;
 - c. Installation of a siltation box upstream of any sewer discharge
 - d. Installation of a flowmeter with nonresettable volume totalizer.
 - e. Permit from the City of Chicago Department of Sewers for discharge to city sewer.
- 7. STS contacted Argonne National Laboratory requesting a signed QAPP signature page or a schedule for providing the requested signature.
- 8. The removal action field schedule estimated by STS for the Work Plan included 12 weeks for the removal activities. As of 19 July 2002, 30 days of removal action field work have been

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 102 July 31, 2002 Page 3

performed. Phase I removal activities are nearing completion in Area 1. Based on the work completed to-date and the work remaining to be completed, we anticipate that the removal action field work will extend beyond the originally estimated 12 week duration. If Phase I removal activities in Areas 2, 3, and 4 encounter similar proportions of radiological-impacted soil and similar quantities of concrete foundation elements, walls, footings and floor slabs, as have been encountered in Area 1, then Phase 1 removal activities could continue for another 4 to 6 weeks. This could translate into a 20 to 30-day extension of the original 12-week schedule.

Work Planned for 29 July to 2 August 2002

- 1. Continue Phase I removal of radiological-impacted soil in the eastern portions of Area 1. Begin Phase I removal of radiological-impacted soil in Area 2.
- 2. Continue Phase II removal in Area 1.
- 3. Continue excavation and removal of pesticide-impacted soils from Area 1. Additional discretionary sampling of in-situ soils and field pesticide analysis using the immunoassay test procedure will be performed. Additional pre-verification and verification sampling and analyses will be performed as pesticide-impacted soil removal is completed.
- 4. Provide USEPA with a copy of an STS memorandum explaining excavation and verification sampling procedures for the pesticide-impacted soils.
- 5. STS will follow-up with the laboratory director for Argonne National Laboratory concerning their signature on the QAPP.
- 6. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.
- 7. An application for discharge permit from the Chicago Department of Sewers will be finalized and delivered to the City in the next two to three weeks.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS LTD

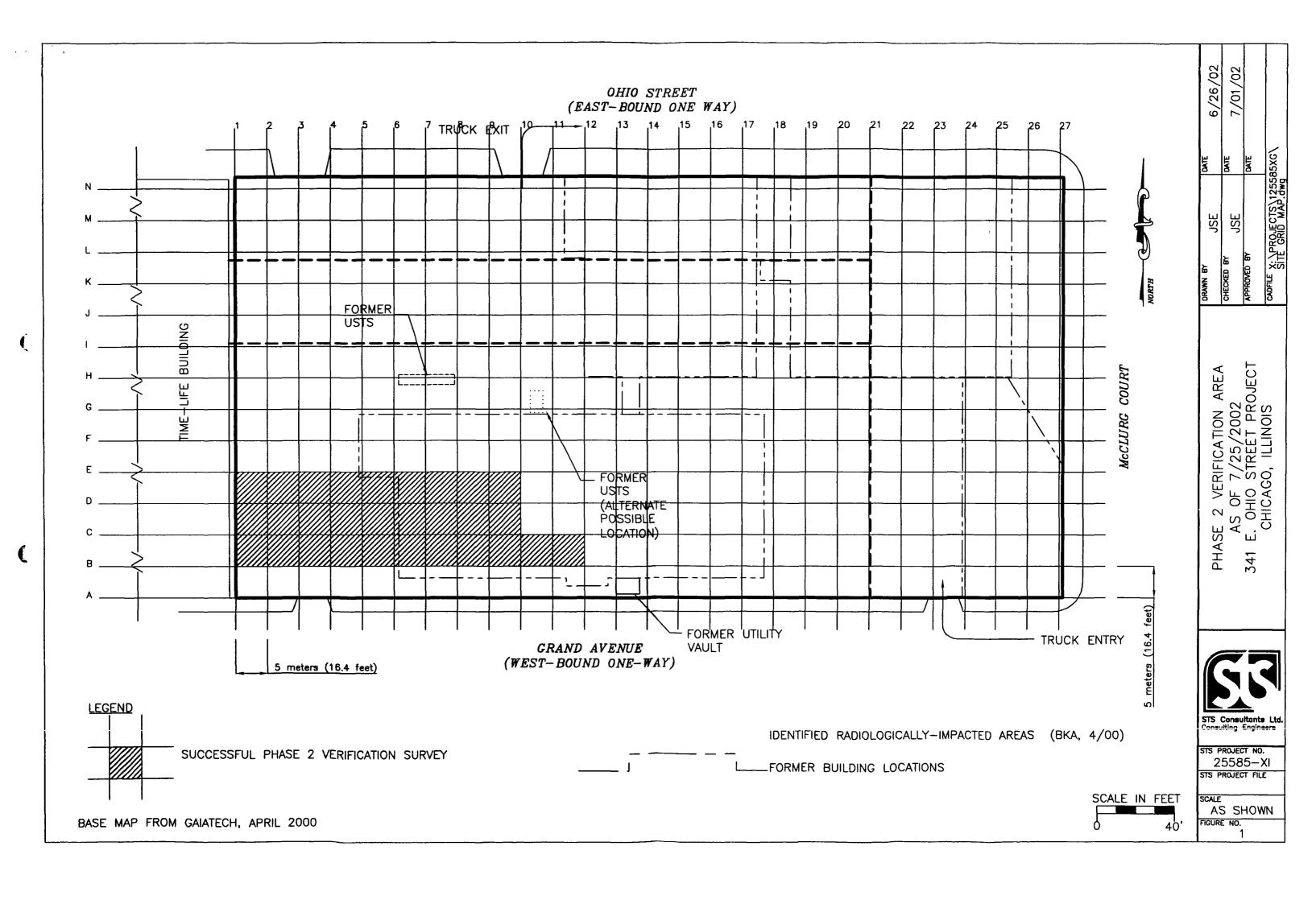
John S. Esser, P.Ē., P.G. Sønior Project Engineer

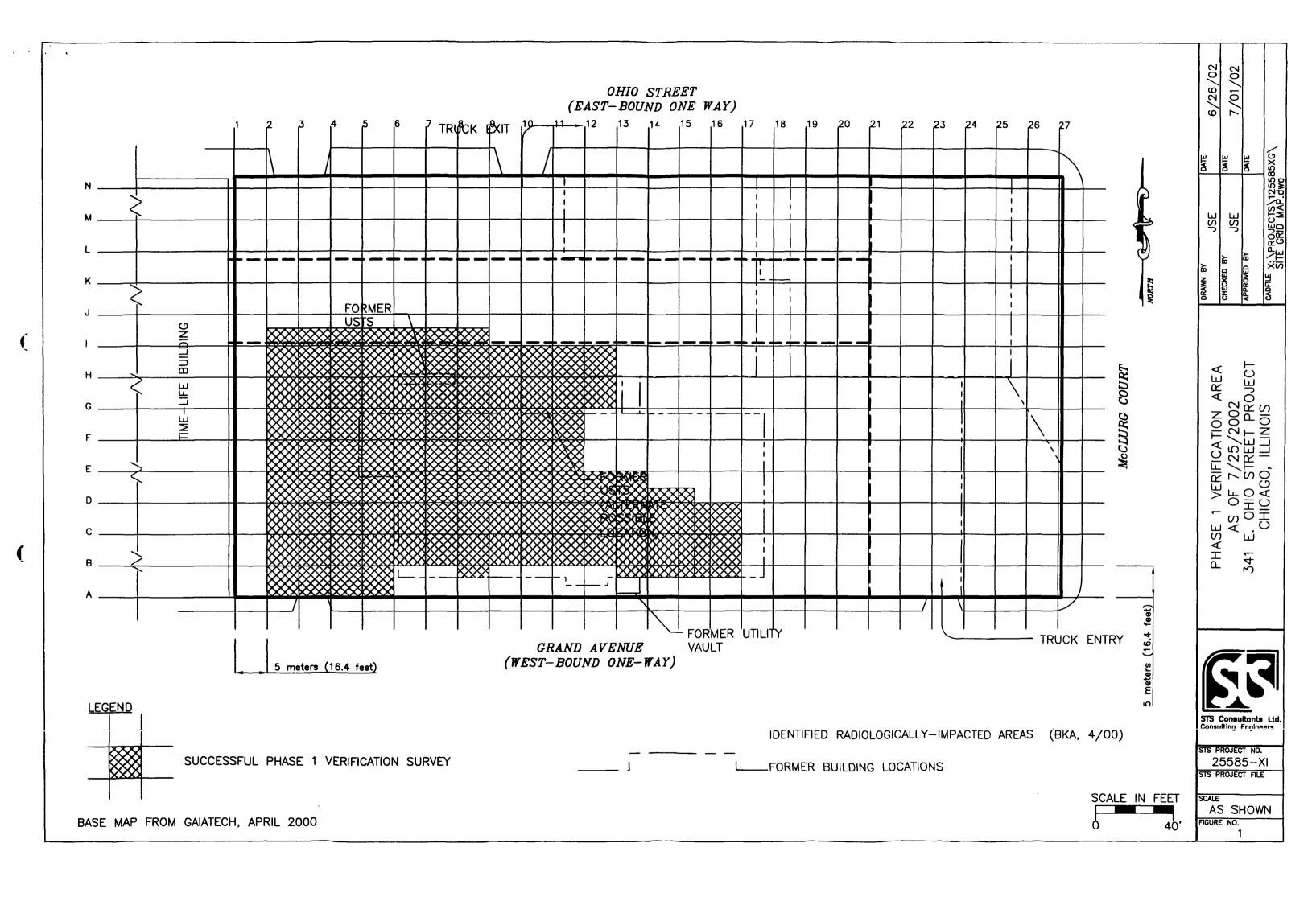
Attachments: Successful Phase 1 Verification Areas as of 26 July 2002

Successful Phase 2 Verification Areas as of 26 July 2002

Air Monitoring Results for 15 to 19 July 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital





Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Monitor		Week #7 7/16/02-7/19	3 /02	(High Volume)	
Date	Time Sampled (minutes)	Effluent Concentration in uCi/ml	Concentration x Sample Min / Day	Comments	
7/15/02					
7/16/02	476	0.00E+00	0.00E+00		
7/17/02	549	1.10E-15	6.04E-13		
7/18/02	473	0.00E+00	0.00E+00		
7/19/02	546	0.00E+00	0.00E+00		
	2595	1 10F-15	6 04F-13		

 $C_{\text{avg}} = \sum T_{\text{s.t.}} C_{\text{s.t.}}$ $\sum T_{\text{s.t.}}$ Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (North) = 2.33E-16 uCi/ml

Percentage of Release Limit of = 5.82%

4E-15uCi/ml

South Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/mi	Sample Min / Day	Comments
7/15/02	546	8.86E-16	4.84E-13	
7/16/02	477	0.005+00	0.00E+00	
7/17/02	541	0.00E+00	0.00E+0D	
7/18/02	475	1.15E-15	5.46E-13	
7/19/02	536	0.00E+00	0.00E+00	
	2575	2.04E-15	1.03E-12	

 $C_{\text{envg}} = \underline{\Sigma T_{\text{e.}} C_{\text{i}}}$ ΣT_{s}

Time Weighted Weekly

Effluent Concentration (South) = 4.00E-16 uCi/ml

Percentage of Release Limit of = 10.00%

Eq A.9 NUREG 1400

4E-15uCVml

4E-15uCi/ml

East Monitor

CASI MOIN	LOT			
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
7/15/02	544	0.00E+00	0.00E+00	
7/18/02	478	0.00E+00	0.00E+00	
7/17/02	541	0.00E+00	0.00E+00	
7/18/02	477	0.00E+00	0.00E+00	
7/19/02	540	0.00E+ <u>00</u>	0.00E+00	
	2580	0.00E+00	0.00E+00	

 $C_{\text{awg}} = \sum T_{\text{k,l}} C_{\text{j}}$ $\sum T_{\text{g}}$ Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (East) = 0.00E+00 uCi/ml

Percentage of Release Limit of = 0.00%

West Monitor

Date	Time Sampled (minutes)	Effluent Concentration in uCi/ml	Concentration x Sample Min / Day	Comments
7/15/02				
7/16/02	9		1	
7/17/02		0.00E+00	0.00E+00	
7/18/02	483	5.94E-16	2.87E-13	
7/19/02	548	0.00E+00	0.00E+00	
	2603	1 75F-15	8 37F-13	

$C_{m_{\mathbf{Q}}} = \underline{\Sigma T_{-1} C_{1}}$
ΣT _{\$}
Eq A.9 NUREG 1400

Time Weightad Weekly	
Effluent Concentration (West) =	3.21E-16 uCi/ml
Percentage of Release Limit of =	8 04%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 7

July 15, 2002 - July 19, 2002

ITOON	<u></u>			July 11	J, 200	E - July	0, 2002										
				total	cubic	sampie		day	after a	nalysis			fou	r day a	ralysis		% of Limit
Sample	date	ateurt	stop	time	fl/ min	volume	clete	gross	bkg	net	Concentration	date	gross	biqj	net	Concentration	4.00E-15
lD di	belgmes	time	time	sampled	(CFM)	analyzed	amalyzed	counts	counts	срп	in uCi/mi	anelyzed	counts	counts	cpm	in uCVmi	uCifmi
N1026	7/15/02	8:08am	5:19pm	551	59	3.22E+07	7/18/02	110	21	2.96667	3.38E-14	7/19/02	16	17	0	0.00E+00	0.00%
S1026	7/15/02	8:06am	5:12pm	546	51	2.76E+07	7/18/02	209	21	6.26667	8.33E-14	7/19/02	19	17	0.067	8.88E-16	22.14%
E1026	7/15/02	8:10em	5:14pm	544	41	2.21E+07	7/18/02	115	21	3.13333	5.20E-14	7/19/02	17	17	0	0.00E+00	0.00%
W1026	7/15/02	8:04 a m	5:15pm	551	42	2.29E+07	7/18/02	183	21	5.4	8.63E-14	7/19/02	16	17	0	0.00E+00	0.00%
N1027	7/16/02	8:02am	3:58pm	476	53	2.50E+0?	7/17/02	214	22	6.4	9.39E-14	7/22/02	18	18	0	0.00E+00	0.00%
81027	7/16/02	6:03am	4:00pm	477	53	2.51E+07	7/17/02	188	22	4,86667	7.12E-14	7/22/02	17	18	0	0.00E+00	0.00%
E1027	7/16/02	8:05em	4:03pm	478	49	2.32E+07	7/17/02	157	22	4.5	7.11E-14	7/22/02	18	18	0	0.00E+00	0.00%
W1027	7/16/02	8:01am	3:55pm	474	45	2.11E+07	7/17/02	251	22	7.63333	1,32E-13	7/22/02	20	18	0.067	1.16E-15	28.91%
N1028	7/17/02	8:03am	5:12pm	549	41	2.23E+07	7/18/02	214	18	6.53333	1.07E-13	7/22/02	20	18	0.067	1.10E-15	27.39%
S1028	7/17/02	6:04am	5:05pm	541	48	2.57E+07	7/18/02	168	18	5	7.12E-14	7/22/02	16	18	0	0.00E+00	0.00%
E1028	7/17/02	8:06am	5:07pm	541	40	2.14E+07	7/18/02	157	18	4.63333	7.92E-14	7/22/02	18	18	0	0.90E+00	0.00%
W1028	7/17/02	6:01 am	5:10pm	549	40	2.18E+07	7/18/02	251	18	7.76667	1.31E-13	7/22/02	16	18	0	0.00E+00	0.00%
N1029	7/18/02	8:02 a m	3:55pm	473	37	1.73E+07	7/19/02	220	17	6.76667	1.43E-13	7/23/02	15	17	0	0.00E+00	0.00%
S1029	7/18/02	8:00am	3:55pm	475	45	2.12E+07	7/19/02	225	17	6.93333	1.20E-13	7/23/02	19	17	0.067	1.15E-15	28.85%
E1029	7/18/02	7:59am	3:56pm	477	47	2.22E+07	7/19/02	191	17	5.8	9.57E-14	7/23/02	17	17	0	0.00E+00	0.00%
W1029	7/18/02	7:56am	3:59pm	483	43	2.06E+07	7/19/02	236	17	7.3	1.30E-13	7/23/02	18	17	0.033	5,94E-16	14.84%
N1030	7/19/02	8:04am	5:10pm	546	44	2.38E+07	7/22/02	24	18	0.2	3.08E-15	7/24/02	18	21	0	0.00E+00	0.00%
S1030	7/19/02	8:07am	5:03pm	536	43	2.28E+07	7/22/02	20	18	0.06887	1.07E-15	7/24/02	17	21	8	0.00E+00	0.00%
E1030	7/19/02	8:05am	5:05pm	540		2.35E+07		17	16	. 0	0.00E+00	7/24/02	19	21	C	0.00E+00	0.00%
W1030		8:02am	5:08pm	546			E	23	18	0.16667			18	21	C	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis)
341 East Ohio Street Project - Chicago, IL

Week 7 July 15 - July 19, 2002

All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

				Flow	Total	Total		Gross	Bkg		Sample
Date				Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration
Collected	Name	Sample (D	PAM#	(ipm)	Sampled	Volume (mi)	Date	(30 min)	(30 min)	CPM	(uCi/ml)
7/15/02	Leonard Smith	PAM1066	002-875	2.5	540	1350000	7/16/02	18	21	0.00	0.00E+00
7/15/02	R. Petty/W.C.	PAM1067	002-574	2.5	554	1385000	7/16/02	24	21	0.10	1.85E-14
7/16/02	Leonard Smith	PAM1068	006-234	2.5	265	662500	7/17/02	28	22	0.20	7.75E-14
7/16/02	Justin Hubbert	PAM1069	006-234	2.5	205	512500	7/17/02	29	22	0.23	1.17E-13
7/16/02	R. Petty/W.C.	PAM1070	002-766	2.5	485	1212500	7/17/02	18	22	0.00	0.00E+00
7/17/02	Leonard Smith	PAM1071	002-574	2.5	240	600000	7/18/02	28	18	0.33	1.43E-13
7/17/02	Justin Hubbert	PAM1072	002-574	2.5	285	712500	7/18/02	35	18	0.57	2.04E-13
7/17/02	R. Petty/W.C.	PAM1073	000-875	2.5	560	1400000	7/18/02	34	18	0.53	9.78E-14
7/18/02	Leonard Smith	PAM1074	002-766	2.5	235	587500	7/19/02	16	17	0.00	0.00E+00
7/18/02	Justin Hubbert	PAM1075	002-766	2.5	195	487500	7/19/02	21	17	0.13	7.02E-14
7/18/02	R. Petty/W.C.	PAM1076	006-234	2.5	460	1150000	7/19/02	25	17	0.27	5.95E-14
7/19/02	R. Petty/W.C.	PAM1077	002-675	2.5	535	1337500	7/22/02	15	18	0.00	0.00E+00
7/19/02	Justin Hubbert	PAM1078	006-234	2.5	580	1450000	7/22/02	17	18	0.00	0.00E+00
i											

Note: Official airborne Th-232 concentrations are obtained from 4 Day Analysis. See attached 4 Day Analysis Form for Occupational Dose Limit Information.

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL

Week 7 July 15 - July 19, 2002

***Note: All samples on this page were analyzed after 4 days to allow for thorium daughter decay

				Flow	Total	Total		Gross	Bkg		Sample	% of
Date		1		Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration	DAC
Collected	Name	Sample ID	PAM #	(lpm)	Sampled	Volume (mi)	Date	(30 min)	(30 min)	CPM	(uCl/mi)	
7/15/02	R. Petty/W.C.	PAM1067	002-574	2.5	554	1385000	7/19/02	17	17	0.00	0.00E+00	0.00%
7/16/02	Leonard Smith	PAM1068	006-234	2.5	265	662500	7/22/02	16	18	0.00	0.00E+00	0.00%
7/16/02	Justin Hubbert	PAM1069	006-234	2.5	205	512500	7/22/02	17	18	0.00	0.00E+00	0.00%
7/17/02	Leonard Smith	PAM1071	002-574	2.5	240	600000	7/22/02	17	18	0.00	0.00E+00	0.00%
7/17/02	Justin Hubbert	PAM1072	002-574	2.5	285	712500	7/22/02	18	18	0,00	0.00€+00	0.00%
7/17/02	R. Petty/W.C.	PAM1073	002-675	2.5	560	1400000	7/22/02	20	18	0.07	1.22E-14	2.44%
7/18/02	Justin Hubbert	PAM1075	002-766	2.5	195	487500	7/23/02	18	17	0.03	1.75E-14	3.51%
7/18/02	R. Petty/W.C.	PAM1076	006-234	2.5	460	1150000	7/23/02	17	17	0.00	0.00E+00	0.00%

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/ml

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Date:	July 17, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax#: 312-353-9176
	Timothy Ramsey	Piper Rudnick		Fax#: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax# 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax # 312-335-9365
Pages	being transmitted, incl. Cover			
CC:		Fax No.;	•	
From:	John Esser	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
[]∪rger	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Messa	nge:			

IMPORTANT: This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.



STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, Illinois 60061-3153 voice 847-279-2500 fax 847-279-2510 web www.stsconsultants.com

July 17, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No. 099

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of 8 to 12 July 2002 and the work expected during the week of 15 to 19 July 2002.

Work Completed During 8 to 12 July 2002

 Completed sixth week of removal action field activities. Removal action activities consisted of Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiologicalimpacted soil excavation and loading for off-site transportation. Pavement was stripped from a portion of Area 1 followed by radiological-impacted soil removal at the stripped area. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	132	43	175

- 2. Verification surveys were performed following removal of radiological-impacted soils.
 - a. Successful Phase 1 verification areas (see attached figure):

Verification Date	Grid Line	Grid Line
6/25/02 This prior successful verification survey was completed but inadvertently omitted from previous weekly reports.	D to E	6 to 9
7/8/02	C to E	9 to 11
7/8/02	A.5 to D.5	14 to 15.5
7/8/02	B to C	9 to 13
7/8/02	A.5 to E	13 to 14
7/8/02	A.5 to D	15.5 to 17
7/8/02	C to E	11 to 13
7/12/02	E to G	4 to 6
7/12/02	E to G	2 to 4
7/12/02	E to G	6 to 8
7/12/02	E to G	8 to 10

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 099 July 17, 2002 Page 2

- Area and personal air monitoring were performed. Results for the week of 8 to 12 July 2002 will be included in next week's report. Results for the week of 1 to 5 July 2002 are attached. No exceedances of allowable limits were measured.
- 4. STS submitted four copies of QAPP Revision 3, dated 13 June 2002 to USEPA on 12 July 2002. A signature from the laboratory director for Argonne National Laboratory was not received at the time the QAPP was issued. STS will transmit the final signature after we receive it from Argonne National Laboratory.
- 5. On 12 July 2002, USEPA On-Scene Coordinator Verneta Simon requested that John Esser of STS Consultants meet with three individuals who were at the site entrance. The three individuals stated that they were local residents and members of Streeterville Organization of Active Residents (SOAR). They expressed concern over what they perceived as an excessive amount of dust being generated at various times during the removal action. They requested that STS/TRS consider implementing additional measures to reduce or control dust generation. One of the SOAR representatives did state that the dust generated at the current project is considerably less than what she observed during similar removal action work at the two other Lindsay Light sites. The USEPA representatives present at the site meeting stated that USEPA had no objections to the dust control measures that they have observed being implemented at the site. STS forwarded the comments of the individuals to TRS via Piper Rudnick.

Work Planned for 15 to 19 July 2002

444

- 1. Continue removal action activities. It is anticipated that removal action activities during this week will include continued Phase I removal of radiological materials in the north and east portions of Area 1. In addition, concrete footings will also continue to be removed from Area 1.
- 2. STS anticipates performing soil sampling and field immunoassay test analysis over portions of Area 1 previously identified to be impacted by pesticides where Phase 1 removal has been successfully verified. The purpose of the sampling and analyses is to evaluate whether pesticide-impacted soils with pesticide concentrations in excess of the IEPA Tier 1 residential standard remain. The field sampling will be performed as described in the Amended Work Plan. Briefly, initial sampling will consist of collection of soil samples at a frequency of one sample per 100 square meters of exposed Phase 1 subgrada. Samples will be analyzed using the field immunoassay test procedure. After immunoassay tests indicate that the soil remaining is below the pesticide clean-up objective, additional confirmation soil samples will be collected for laboratory pesticide analysis.
- Based on discussions between Dumas Guerrier of STS and representatives of USEPA, we understand that the Phase II removal methodology described in our letter dated 8 July 2002 is acceptable to USEPA. We understand that written approval from USEPA is being prepared.
- 4. STS will follow-up with MWRDGC concerning STS's letter dated 21 June 2002 requesting issuance of the one-time discharge permit or confirmation of STS/TRS understanding of the conclusions reached at the 17 June 2002 meeting.
- 5. STS will review with TRS/Piper Rudnick, the comments received by SOAR on 12 July 2002 and determine a response.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 099 July 17, 2002 Page 3

- 6. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.
- 7. Responses and/or approvals currently pending include:
 - a. MWRDGC one-time discharge permit for excavation dewatering effluent.
 - b. Chicago Department of Sewers discharge permit (immediately following receipt of MWRDGC permit).
 - c. USEPA written approval of the change in removal action sequence as set forth in STS's letter dated 8 July 2002.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

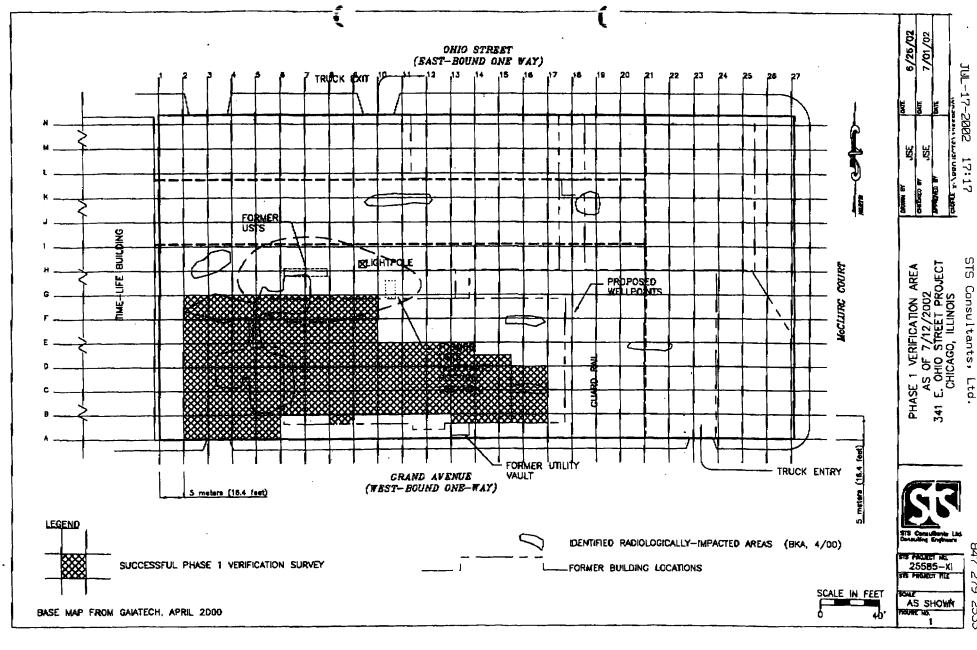
STŞ ÇONŞULTANTS, LTD.

ighn S. Esser, P.E., P.G. Senior Project Engineer

Attachments: Successful Phase 1 Verification Areas as of 12 July 2002

Air Monitoring Results for 1 to 5 July 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 5	July 1, 2002 - July 3, 2002
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				total	oubic	temple		dey	after a	netroje			for	r day a	nniyalu		X of Limit
algrand	deta	stert	ekop	time	19/min	VOLUME	dale	gross	bitg	nel	Conceniumion	Ciarie	gross	pid	गर्झ	Concentration	400E-15
ID_	sampled	Bine	Unne	sampled	(CFM)	analyzed	enelyzed	counts	counts	opm	in uCVmi	analyzed	counts	counts	opm		uCimi
NIDIB	7/1/02	8:00am	3:55pm	476		1.85E+07	7/2/02	272	16	8.53333	1.90E-13	7/8/02	21	22	Ô	0.00E+00	0.009
S1018	7/1/02	8:00em	3:50pm	470	48	2.24E+07	7/2/02	286	16	9	1.48E-13	7/8/02	23	22	0.033	5.47E-16	13.879
E1018	7/1/02	6:00am	3:60pm	470	40	1.86E+07	7/2/02	232	. 16	7.2	1.42E-13	7/8/02	20	22	0	0.00E+00	0.009
810tW	7/1/02	8:00am	3:57pm	477	50	2.36E+07	7/2/02	317	18	10.0333	1.58E-13	7/8/02	24	22	0.067	1.03E-15	25.859
N1019	7/2/02	8:01am	4:17pm	498	43	2.11E+07	7/3/02	. 124	18	3.53333	6.13E-14	7/8/02	16	22	0	0.00E+00	0.009
S1019	7/2/02	7:58 a m	4:14pm	495	48	2.26E+07	7/3/02	116	10	3.26667	5.30E-14	7/8/02	23	22	0.033	5.41E-18	13.519
E1019	7/2/02	8:03em	4:17pm	494	42	2.06E+07	7/3/02	21	16	2.43333	4.34E-14	7/8/02	22	22	0	0.00E+00	0.009
W1019	7/2/02	7:55em	4:20pm	505	38	1.90E+07	7/3/02	144	18	4.2	8.10E-14	7/8/02	25	22	0.1	1.93E-15	48.209
N1020	7/3/02	8:00am	3:40pm	460	39	1.76E+07	No	Day A	iter Ana	lysis Perio	rmed .	7/8/02	16	22	. 0	9.00E+80	0.00
\$1020		8:03am	3:42pm	459	43	1.96E+07		Due to	4th of	July Holid	ву	7/8/02	22	22	. 0	0.00E+00	0.00
E1020	7/3/02	8:02am	3:37pm	455	40	1.80E+07			ł			7/8/02	25	22	0.1	2.03E-15	50.82
W1020	7/3/02	7:59am	3:35pm	458	38	1.72E+07			*			7/8/02	24	22	0.067	1.42E-15	35.59
Only 3 s	ample co	llaction da	ys - 4th of	July Holic	iay												•
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Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Monitor		Week #5 7/1/02-7/3/0	2	(High Volume)
·	Time Sampled	Effluent Concentration		
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
7/1/02	475	0.00E+00	0.00E+00	
7/2/02	496	0.00E+00	0.00E+00	
7/3/02	460	0,00E+00	0.00E+00	
7/4/02	o			No Work - 4th of July Hollday
7/5/02			\- 	No Work - 4th of July Holiday
	1431	0.00E+00	0.00E+00	

Time Weighted Weekly Effluent Concentration (North) = 0.00E+00 uCi/m) 0.00% Percentage of Release Limit of =

Eq A.9 NUREG 1400

4E-15uCi/mi

SOUTH MO				
	Time Sampled	Effluent Concentration	Concentration x	(
Date	(minutes)	in uCi/m!	Sample Min / Day	Comments
7/1/02	470	5.47E-18	2.57E-13	
7/2/02	496	5.41E-16	2.68E-13	.)
7/3/02	459	0.00E+00	0.00E+00	İ
7/4/02	a			No Work - 4th of July Holiday
7/5/02	o			No Work - 4th of July Holiday
	1425	1.09E-15	5.25E-13	

Com = ET. C

 ΣT_{ti}

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (South) =

Percentage of Release Limit of =

4E-15uÇitml

Fact Monitor

1111

Test Marie				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
7/1/02	470	0.00E+00	0.00E+00	
7/2/02	494	0.00E+00	0.00E+00	
7/3/02	455	2.09至-15	9.24E-13	1
7/4/02	. 0			No Work - 4th of July Holiday
7/5/02	0			No Work - 4th of July Holiday
	1419	2.03E-15	9.24E-13	

 $C_{max} = \sum_{i} \sum_{j} C_{ij}$

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (East) =

Percentage of Release Limit of = 4E-15uCimi

6.51E-16 uCi/ml

3.69E-16 uCl/ml

9.22%

16.27%

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
7/1/02	477	1.03E-15	4.91E-13	
7/2/02	505	1.93E-15	9.75E-13	
7/3/02	456	1.42E-15	8.48E-13	
7/4/02	٥			No Work - 4th of July Holiday
7/5/02	0			No Work - 4th of July Holiday
	1438	4.38E-15	2.11E-12	

$C_{mg} = \Sigma T_{ni} C_{i}$
ΣT _e
EN A 9 NUIREG 1400

Time Weighted Weekly	
Effluent Concentration (West) =	1.47E-15 uCi/mi
Percentage of Release Limit of =	36,74%

(ziz

Week 5 July 1 - July 3, 2002

after analysis are recounted after 4 days (see attached)

11)	Analysis Data	Gross Counts (30 min)	Bkg Counts (30 min)	Net CPR:	Sample Concentration (uCi/ml)
00	7/2/02	18	16	0.07	1.44E-14
00	7/2/02	15	16	0.00	0.00E+00
30	7/3/02	24	18	0.20	4,15E-14
OC	7/3/02	18	18	0.00	0.00E+00
30	7/8/02	18	22	0.00	0.00E+00
30	7/8/02	19	22	0.00	0.00E+00



Solutions through Science & Engineering

July 11, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No.095

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of July 1-5, 2002 and the work expected during the week of July 8-12, 2002.

Work Completed During July 1-5, 2002

1. Completed fifth week of removal action field activities. Removal action activities were performed on July 1 through July 3, 2002 and consisted of Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Pavement was stripped from a portion of Area 1 followed by radiological-impacted soil removal at the stripped area. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	104	28	132

- 2. No excavation or removal activities were performed on July 4 through July 7, 2002 due to the 4th of July holiday and holiday weekend. An STS field representative was on-site each day during the holiday break to spray water over the excavation and stockpiles to minimize the possibility of blowing dust. No contaminated soils were stockpiled. Clean fill and foundation rubble stockpiles were covered with tarps.
- 3. No final verification surveys were completed this week.
- 4. Area and personal air monitoring were performed. Results for the week of July 1-5, 2002 will be included in next week's report. Results for the week of June 24-28, 2002 are attached. No exceedances were measured.
- 5. STS received all signatures for the QAPP signature page except from the representatives of RSSI and Argonne National Laboratory. As a result, the corrected QAPP was not issued this week as expected.

Work Planned for July 8-12, 2002

1. Continue removal action activities. It is anticipated that removal action activities during this week will continue to be Phase I removal in Area 1.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 095 July 11, 2002 Page 2

- 2. STS will submit a letter to USEPA modifying STS's request for a modification of the sequence of the removal action. STS's original request to USEPA was in STS's letter dated June 25, 2002. The modification will address USEPA's comments about the proposed sloping in Area 1. Note: STS submitted the letter modification on July 8, 2002.
- 3. Although a signature has not been obtained from the representative of RSSI, STS plans to issue the corrected QAPP to USEPA for final approval, pursuant to USEPA's letter dated June 4, 2002. STS will forward RSSI's sign-off to the USEPA after it is received.
- 4. STS anticipates distributing compilations of the USEPA-approved Work Plan documents for the convenience of removal action participants.
- 5. Responses and/or approvals currently pending include:
 - a. MWRDGC one-time discharge permit for excavation dewatering effluent.
 - b. Chicago Department of Sewers discharge permit (immediately following receipt of MWRDGC permit).
 - c. USEPA approval of the change in removal action sequence as set forth in STS's letters date June 25, 2002 and July 8, 2002.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

Attachments: Air Monitoring Results for June 24-28, 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohlo Street Project - Chicago, IL

Week4

June 24, 2002 - June 28, 2002

116674	′			OUNT	,	02 - QUITO	20, 200										
				total cubic sample day after analysis							fot	ır day aı	nalysia		% of Limit		
Sample	ciate	start	atop	time	ft/ min	volume	ciace	QFD96	gelai	net	Concentration	date	37068	bkg	net	Concentration	4.00E-15
(D)	sampled	time	lime	sumpled	(CFM)	analyzed	analyzed	counts	counts	₽ pm	in uCl/ml	anatyzed	COURTE	counts	cpm	in uCl/mi	uCi/ml
N1013	6/24/02	7:55am	5:28pm	573	39	2.21E+07	6/25/02	154	18	4,53333	7.51E-14	6/28/02	15	19	0	0.00E+00	0.00%
\$10 13	6/24/02	7:58em	5:23pm	565	46	2.58E+07	6/25/02	148	18	4.33333	6.17E-14	6/26/02	18	19	0	0.00E+00	0.00%
E1013	6/24/02	7:55am	5:30pm	575	45	2.56E+07	6/25/02	169	18	5.03333	7.20E-14	6/28/02	19	19	0	0.00E+00	0.00%
W1013	6/24/02	7:58am	5:23pm	565	45	2.52E+07	8/25/02	140	18	4.05667	5.92E-14	6/28/02	22	19	0.1	1.48E-15	38.38%
N1014	6/25/02	8:10am	4:40pm	510	41	2.07E+07	6/26/02	374	19	11.8333	2.09E-13	7/1/02	16	20	C	0.00E+00	0.00%
81014	6/25/02	8:00am	4:50pm	530	48	2.52E+07	6/26/02	393	19	12,4667	1. 81E -13	7/1/02	17	20	0	0.00 E+ 00	0.00%
E1014	6/25/02	6:10am	4:40pm	510	54	2.73E+07	6/26/02	450	19	14.3667	1.93E-13	7/1/02	20	20	0	0.00E+00	0.00%
W1014	6/25/02	8:00am	4:45pm	525	43	2.24E+07	8/26/02	483	19	15.4867	2.53E-13	7/1/02	19	20	0	0.00E+00	0.00%
N1016	6/26/02	8:00am	5:14pm	554	54	2.96E+07	6/27/02	216	19	6.58887	8.12E-14	7/1/02	17	20	0	0.00E+00	0.00%
S1015	6/26/02	8:00am	5:12pm	552	48	2.52E+07	6/27/02	289	19	9	1.31E-13	7/1/02	18	20	0	0.00E+00	0.00%
E1015	6/26/02	8:08am	5:15pm	547	45	2.44E+07	6/27/02	277	19	8.6	1.29E-13	7/1/02	22	20	0.067	1.00E-15	25.05%
W1015	6/26/02	8:08am	5:15pm	547	44	2.39E+07	6/27/02	259	19	8	1.23E-13	7/1/02	18	20	0	0.00E+00	0.00%
N1016	6/27/02	8:07am	5:19pm	552	44	2.41E+07	6/28/02	58	19	1.3	1.98E-14	7/2/02	18	16	0.067	1.02E-15	25.39%
S1018	6/27/02	7:59am	5:25pm	568	47	2.64E+07	6/28/02	41	19	0.73333	1.02E-14	7/2/02	16	16	٥	0.00E+00	0.00%
E1016	6/27/02	8:03am	5:26pm	563	45	2.51E+07	6/28/02	42	19	0.76667	1.12E-14	7/2/02	19	16	0.1	1.48E-15	38.51%
W1016	6/27/02	7:58am	5:25pm	567	48	2.70E+07	6/28/02	53	19	1.13333	1.54E-14	7/2/02	20	16	0.133	1.81E-15	45.31%
N1017	6/28/02	8:00am	5:05pm	545	42	2.27E+07	7/1/02	24	20	0.13333	2.16E-15	7/2/02	2 16	18		0.00E+00	0.00%
S1017	6/28/02	8:00am	5:00pm	540	50	2.68E+07	7/1/02	22	20	0.06667	9.14E-16	7/2/02	2 17	18	0.033	4.57E-16	11.42%
E1017	6/28/02	8:00am	5:07pm	547	41	2.22E+07	7/1/02	18	20	0	0.00E+00	7/2/02	22	16	0.2	3.30E-15	62.48%
W1017	6/28/02	8:00am	5:00pm	540		2.68E+07	7/1/02	20	20	0	0.00E+00	7/2/00	2 16	5 16	i (0.00E+00	0.00%

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Mor	nitor	Week #4 6/24/02-0	5/28/02	(High Volume)
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/mi	Sample Min / Day	Comments
6/24/02	573	0.00E+00	0.00E+00	
6/25/02	510	0.00E+00	0.00E+00	
6/26/02	55 4	0.00E+00	0.00E+D0	
6/27/02	552	1.02E-15	5.63E-13	
6/28/02	545	0.00E+00	0.00E+00	·
	2734	1.02E-15	5.63E-13	

 $C_{\text{max}} = \sum_{i} T_{\text{mi}} C_{i}$ ΣT. Time Weighted Weekly Effluent Concentration (North) =

2.06E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of = 4E-15uCi/ml

5.15%

South Monitor

GOULD 111	99 91 E434			
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/24/0	2 565	0.00E+00	0.00E+00	
6/25/0	2 530	0.00E+00	0.00E+00	
6/26/0	552	0.00E+00	0.00E+00	
6/27/0	2 566	0.00E+00	0.00E+00	
6/28/02	540	4.57E-16	2.47E-13	
<u></u>	2753	4.57E-16	2.47E-13	

C my = ETeLC

Time Weighted Weekly

Effluent Concentration (South) = 8.96E-17 uCi/ml

ΣΤ, Eq A.8 NUREQ 1400

Percentage of Release Limit of =

2.24%

4E-15uCi/ml

East Monitor

PARTY 187 W177				
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/24/02	575	0.00E+00	0.00E+00	
6/25/02	510	0.00E+00	0.00E+00	
8/26/02	547	1.00E-15	5.47E-13	
6/27/02	563	1,48E-15	8.22E-13	
6/28/02	547	3.30 E-15	1.81E-12	
	2742	5.76F-15	3.17F-12	

Cove = IT. Ci

ΣT,

Time Weighted Weekly 1.16E-15 uCi/ml Effluent Concentration (East) = Percentage of Release Limit of = 28.94%

Eq A.9 NUREG 1400

4E-15uCi/ml

STS

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/24/02	565	1.46E-15	8.25E-13	
6/25/02	525	0.00E+00	0.00E+00	
6/26/02	547	0.00E+00	0,00€+00	
6/27/02	587	1,81E-15	1.03E-12	
6/28/02		0.00E+00	0.00E+00	
······································	2744	3.27E-15	1.85E-12	

$C_{mg} = \Sigma T_{a_1} C_1$	Time Weighted Weekly	······································
Σ Τ,	Effluent Concentration (West) =	6.75E-16 uCi/ml
Eq A.9 NUREG 1400	Percentage of Release Limit of =	16.87%

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohlo Street Site - Chicago, IL

Week 4 June 24 - June 28, 2002

ALL THE OWN OF ONE OHE	. of monday, in	
		***Note: All samples on this page were analyzed after 4 days to allow for thorium daughter decay

				Flow	Total	Total		Gross	Bkg		Sample	% of
Date		ì		Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration	DAC
Collected	Name	Sample ID	PAM #	(lpm)	Sampled	Volume (ml)	Date	(30 min)	(30 min)	CPM	(uCi/mi)	
6/24/02	R. Petty / W.C.	PAM1033	002-766	2.5	565	1412500	6/28/02	18	19	0.00	0.00E+00	0.00%
6/24/02	Leonard Smith	PAM1034	002-574	2.5	565	1412500	6/28/02	21	19	0.07	1.21E-14	2.42%
6/25/02	Leonard Smith	PAM1035	006-234	2.5	240	800000	7/1/02	22	20	0.07	2.85E-14	5.70%
6/25/02	Justin Hubbert	PAM1036	996-234	2.5	180	450000	7/1/02	20	20	0.00	0.00E+00	0.00%
6/25/02	R. Petty / W.C.	PAM1037	002-875	2.5	520	1300000	7/1/02	20	20	0.00	0.00E+00	0.00%
6/26/02	Leonard Smith	PAM1038	002-768	2.5	240	903000	7/1/02	16	20	0.00	0.00E+00	0.00%
6/28/02	R. Petty / W.C.	PAM1039	002-574	2.5	555	1387500	7/1/02	17	20	0.00	0.00E+00	0.00%
6/27/02	Leonard Smith	PAM1041	002-675	2.5	290	725000	7/2/02	15	16	0.00	0.00E+00	0.00%

Occupational Dose Limit for Occupational Radiation Exposure = 5 rem Total Effective Dose Equivalent

2000 DAC-Hours = 5 rem

DAC (Derived Air Concentration) for Th-232 = 5E-13uCi/ml

Administrative Site Limit for Occupational Exposure = 30% Th-232 DAC = 1.5E-13 uCi/mi

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 4 June 24 - June 28, 2002

*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

				Flow	Total	Total		Gross	Bkg		Sample
Date				Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration
Collected	Name	Sample ID	PAM #	(lpm)	Sampled	Volume (mi)	Date	(30 min)	(30 min)	CPM	(uCi/ml)
8/24/02	R. Petty/W.C.	PAM1033	002-786	2.5	585	1412500	6/25/02	27	18	0.30	5.45E-14
8/24/02	Leonard Smith	PAM1034	002-574	2.5	565	1412500	8/25/02	22	18	0.13	2.42E-14
6/25/02	Leonard Smith	PAM1035	008-234	2.5	240	600000	6/26/02	30	19	0.37	1.57E-13
6/25/02	Justin Hubbert	PAM1038	008-234	2.5	180	450000	6/26/02	28	19	0.30	1.71E-13
6/25/02	R. Petty/W.C.	PAM1037	002-675	2.5	520	1300000	6/26/02	45	19	0.87	1.71E-13
6/26/02	Leonard Smith	PAM1038	002-766	2.5	240	600000	6/27/02	36	19	0.57	2.42E-13
6/26/02	R. Petty/W.C.	PAM1039	002-574	2.5	555	1387500	6/27/02	44	19	0.83	1.54E-13
6/26/02	Justin Hubbert	PAM1040	002-788	2.5	280	700000	8/27/02	18	19	0.00	0.00E+00
6/27/02	Leonard Smith	PAM1041	002-675	2.5	290	725000	6/28/02	22	19	0.10	3.54E-14
6/27/02	R. Petty/W.C.	PAM1042	006-234	2.5	570	1425000	6/28/02	14	19	0.00	0.00E+00
6/27/02	Justin Hubbert	PAM1043	002-675	2.5	270	675000	6/28/02	16	19	0.00	0.00E+00
6/28/02	Leonard Smith	PAM1044	008-234	2.5	555	1387500	7/1/02	16	20	0.00	0.00E+00
6/28/02	R. Petty/W.C.	PAM1045	002-875	2.5	555	1387500	7/1/02	18	20	0.00	0.00€+00

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July 3, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No.091

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of June 24-28, 2002 and the work expected during the week of July 1-5, 2002.

Work Completed During June 24-28, 2002

1. Completed fourth week of removal action field activities. Removal action activities performed during the past week were associated with Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Pavement was stripped from a portion of Area 1 followed by radiological-impacted soil removal at the stripped area. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	77	27	104

- 2. Verification surveys were performed following removal of radiological-impacted soils.
 - a. Successful Phase 1 verification areas (see attached figure):

Verification Date	Grid Line	Grid Line
6/11/02	A to B	2 to 6
6/11/02	В	8.5
6/18/02	B to C	2 to 6
6/25/02	D to E	2 to 6
6/25/02	C to D	2 to 6
6/25/02	B to C	6 to 9
6/25/02	C to D	6 to 9

- Area and personal air monitoring was performed during each day of field activities. Results for the week of June 17-21, 2002 are attached. No exceedances were measured. Results for the reporting week will be included in next week's report.
- 4. Shallow test pits (typically less than 4 feet deep) were excavated beneath the bituminous concrete pavement in the vicinity of the known pesticide-impacted soil area for the purpose of refining the limits of pesticide contamination. Samples were collected and analyzed on-site using an immunoassay procedure.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 091 July 3, 2002 Page 2

5. STS submitted a letter to the USEPA, dated June 25, 2002, requesting permission to complete Phase 2 excavation and screening in Area 1 when Phase 1 removal had been completed. The modification will enable the contractor to reduce the number of times equipment and material must be re-located on-site. The modification will also allow the area to be backfilled and covered to minimize dust generation from wind on the exposed soil. The proposed modification represents a departure from the anticipated removal sequence and requires USEPA approval prior to implementation.

Work Planned for July 1-5, 2002

- 1. Continue removal action activities. It is anticipated that removal action activities during this week will continue to consist of Phase I removal in Area 1. If approved, Phase 2 removal in Area 1 may be initiated (see item 5 above).
- 2. Removal action excavation and loading activities will be suspended for the July 4th holiday through Sunday, July 7th. STS will have a laborer on-site each day to spray water over the excavation and stockpiles to minimize the development of blowing dust. Stockpiles will be tarped. No contaminated material will be stockpiled.
- 3. STS anticipates receiving the completed QAPP signature page this week. Following receipt of the signatures, STS will compile the QAPP, incorporating the signature page and the corrections identified in the USEPA's letter dated June 4, 2002 and submit it to USEPA for final approval.
- 4. STS anticipates distributing a complete Work Plan document for the convenience of removal action participants.
- 5. Responses and/or approvals currently pending include:
 - a. MWRDGC one-time discharge permit for excavation dewatering effluent.
 - b. Chicago Department of Sewers discharge permit (immediately following receipt of MWRDGC permit).

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS COMSULTANTS, LTD.

ohn S. Esser, P.E., P.G enior Project Engineer

Attachments: Air Monitoring Results for June 17-21, 2002

Phase 1 Verification Areas as of June 27, 2002

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 3

June 17, 2002 - June 21, 2002

110011																	
				total	cubic	sample		day	after a	nalysis			fou	ir day a	nalysis		% of Limit
Sample	date	stant .	stop	time	fV mh	volume	date	gross	bkg	net	Concentration	date	gross	bkg	net	Concentration	4.00E-15
[סו	sampled	time	time	sampled	(CFM)	analyzed	analyzed	counts	counts	cpm	in uCi/mi	analyzed	counts	counts	фт	m uCilmi	uCt/ml
N1008	6/17/02	7;5 5am	5:45pm	590	50	2.92E+07	6/18/02	184	16	5.6	7.02E-14	6/21/02	13	16	0	0.00E+00	0.00%
S1008	6/17/02	7:51am	5:41pm	590	50	2.92E+07	6/18/02	199	16	6.1	7.65E-14	6/21/02	17	16	0.033	4.18E-16	10.45%
E1008	6/17/02	7:55am	5:20pm	56 5	52	2.91E+07	6/18/02	158	15	4.73333	5.96E-14	6/21/02	15	16	0	0.00E+00	0.00%
W1008	6/17/02	7:51am	5:45pm	594	55	3.24E+07	6/18/02	151	16	4.5	5.10E-14	6/21/02	17	16	0.033	3.77E-16	9.44%
N1009	6/18/02	8:00am	4:50pm	530	53	2.78E+07	6/19/02	165	25	4.66667	6.15E-14	6/24/02	16	22	0	0.00E+00	0.00%
S1009	6/18/02	8:00am	4:50pm	530	52	2.73E+07	6/19/02	189	25	5.46667	7.34E-14	6/24/02	19	22	0	0.00E+00	0.00%
E1009	6/18/02	8:00am	5:20pm	560	56	3.11E+07	8/19/02	113	25	2.93333	3.46E-14	6/24/02	20	22	0	0.00E+00	0.00%
W1009	6/18/02	8:00am	5:25pm	565	52	2.91E+07	6/19/02	194	25	5.63333	7.09E-14	6/24 <i>/</i> 02	25	22	0.1	1.26E-15	31.48%
N1010	6/19/02	8:03am	5:30pm	567	51	2.87E+07	6/20/02	220	17	6.76667	8.66E-14	6/24/02	. 21	22	0	0.00E+00	0.00%
S1010	6/19/02	8:04am	5:30pm	566	44	2.47E+07	6/20/02	262	17	8.16667	1.21E-13	6/24/02	18	22	. 0	0.00E+00	0.00%
E1010	6/19/02	8:00am	5:34pm	574	45	2.58E+07	6/20/02	224	17	6.9	9.88E-14	6/24/02	20	22	. 0	0.00E+00	0.00%
W1010	6/19/02	8:01am	5:30pm	569	4 5	2.54E+07	6/20/02	269	17	8.4	1.21E-13	6/24/02	14	22		0.00E+00	0.00%
N1011	6/20/02	8:05am	5:40pm	575	44	2.51E+07	6/21/02	267	16	8.36667	1.22E-13	6/25/02	20	18	0.067	9 75E-16	24.37%
S1011	6/20/02	8:00am	5:38pm	578	38	2.18E+07	6/21/02	286	16	8.33333	1.40E-13	6/25/02	18	18		0.00E+00	0.00%
E1011	6/20/02	8:05am	5:37pm	572	51	2.89E+07	6/21/02	228	16	7.06667	8.96E-14	6/25/02	16	18		0.00E+00	0.00%
W1011	6/20/02	6:00am	5:43pm	583	54	3.12E+07	6/21/02	245	16	7.63333	8.97E-14	6/25/02	! 18	18		0.00E+00	0.00%
N1012	6/21/02	8:08am	5:50pm	582	50	2.88E+07	6/24/02	20	22	C	0.00E+00	6/25/02	19	18	0.033	4.24E-16	10.59%
S1012	6/21/02	8:08am	5:45pm	579	51	2.93E+07	6/24/02	22	22	C	0.00E+00	6/25/02	? 19	18	0.033	4.18E-16	10.44%
E1012	8/21/02	8:07am	5:50pm	583	52	3.00E+07	6/24/02	! 15	22	C	0.00E+00	6/25/02	16	3 18	(0.00E+00	0.00%
W1012	6/21/02	8:10am	5:40pm	570	47	2.66E+07	6/24/02	19	22	C	0.00E+00	6/25/02	2 15	5 18	• (0.00E+00	0.00%

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report

341 East Ohio Street Project- Chicago, IL

North Moi	nitor	Week #3 6/17/02-6/21	1/02	(High Volume)
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/ml	Sample Min / Day	Comments
6/17/02	590	0.00E+00	0.00E+00	
6/18/02	530	0.00E+00	0.00€+00	
6/19/02	567	0.00E+00	0.00E+00	
6/20/02	575	9.75E-16	5.61E-13	
6/21/02	582	4.24E-16	2.47E-13	
	2844	1.40E-15	8.07E-13	

 $C_{avg} \approx \Sigma T_{e,i} C_{i}$

 ΣT_{e}

Time Weighted Weekly

Effluent Concentration (North) =

2.84E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

7.10%

4E-15uCi/ml

South Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/ml	Sample Min / Day	Comments
6/17/02	590	4.18E-16	2.47E-13	
6/18/02	530	0.00E+00	0.00E+00	
8/19/02	566	0.00E+00	0.00E+00	
6/20/02	578	0.00E+00	0.00E+00	
8/21/02	579	4.18E-16	2.42E-13	
	2843	8.36E-16	4.89E-13	

 $C_{avg} = \Sigma T_{a} C_{i}$

 ΣT_{\bullet}

Time Weighted Weekly

Effluent Concentration (South) =

1.72E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

4.30%

4E-15uCi/ml

East Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/17/02	565	0.00E+00	0.00E+00	
6/18/02	560	0.00E+00	0.00E+00	
6/19/02	574	0.00E+00	0.00E+00	•
6/20/02	572	0.00E+00	0.00E+00	
6/21/02	583	0.00E+00	0.00E+00	
	2854	0.00E+00	0.00E+00	

 $C_{\text{avg}} = \underline{\Sigma} \ \underline{T_{\text{-1}}} \ \underline{C_{\text{1}}}$

 ΣT_a

Eq A.9 NUREG 1400

Time Weighted Weekly

Effluent Concentration (East) =

0.00E+00 uCi/ml

Percentage of Release Limit of =

0.00%

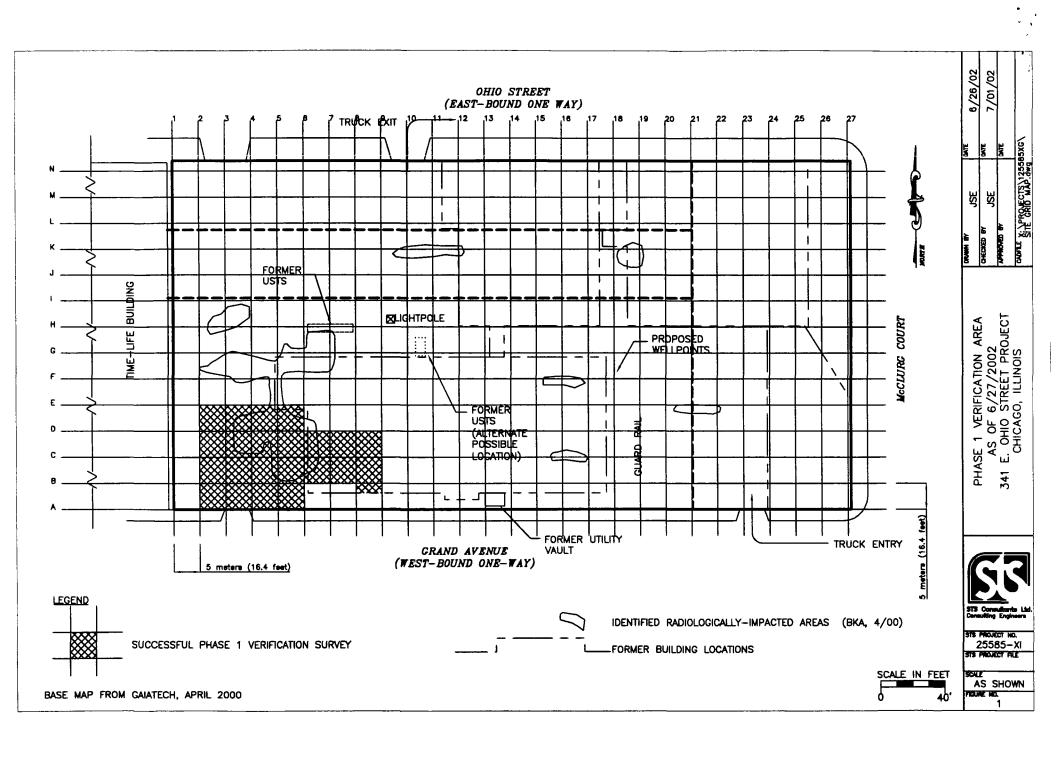
4E-15uCi/ml

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/17/02	594	3.77E-16	2.24E-13	
6/18/02	565	1.26E-15	7.12E-13	
6/19/02	569	0.00E+00	0.00E+00	
6/20/02	583	0.00E+00	0.00E+00	
6/21/02	570	0.00E+00	0.00E+00	
	2881	1,64E-15	9.36E-13	

Cove = ETaLC				
Σ Τ,				
Eq A.9 NUREG 1400				

Time Welghted Weekly	
Effluent Concentration (West) ≖	3.25E-16 uCi/ml
Percentage of Release Limit of =	8.12%



7/25



June 27, 2002

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No.089

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of June 17-21, 2002 and the work expected during the week of June 24 - 28, 2002.

Work Completed During June 17 - 21, 2002

1. Completed third week of removal action field activities. Removal action activities performed during the past week were associated with Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Pavement was stripped from a portion of Area 1 followed by radiological-impacted soil removal at the stripped area. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

		- · · · · · · · · · · · · · · · · · · ·	
	Previous Total	Current Week	Total To-Date
Containers	34	43	77

- Area and personal air monitoring was performed during each day of field activities. Results through June 14, 2002 were included in last week's report. Results for the current week will be included in next week's report.
- 3. A signature page for the QAPP is being circulated.
- 4. Meeting with MWRDGC to discuss permitting of discharge of water from future excavation dewatering sumps/wells. MWRDGC concluded that the groundwater can be appropriately permitted as a one-time discharge under their sewer ordinance. We understand a permit will be issued by MWRDGC at the completion of the Phase I removal work.

Work Planned for June 24 - 28, 2002

1. Continue removal action activities. It is anticipated that removal action activities during this week will continue to consist of Phase I removal in Area 1.

- 2. Shallow test pit excavations are planned for the perimeter of the pesticide-impacted soil area. Soil samples will be analyzed using an on-site immunoassay procedure in order to further refine limits of pesticide-impacted soil removal.
- 3. Finalize revisions to QAPP pursuant to USEPA letter dated June 4, 2002
- 4. Distribute complete Work Plan document to removal action participants pending finalization of QAPP and receipt of Piper Marbury approval.
- 5. Responses and/or approvals currently pending include:
 - a. MWRDGC one-time discharge permit for excavation dewatering effluent.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Rudnick Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



June 21, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XI, Correspondence No.087

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of June 10-14, 2002 and the work expected during the week of June 17 - 21, 2002.

Documentation from Week of June 3 - 7, 2002

1. Air sampling results (Stan A. Huber Consultants, Inc.) for the previous week are attached.

Work Completed During June 10 - 14, 2002

1. Completed second week of removal action field activities. Removal action activities completed during the past week were associated with Phase I/Area 1 pavement stripping, buried structure removal and frisking, and radiological-impacted soil excavation and loading for off-site transportation. Pavement was stripped from a portion of Area 1 followed by radiological-impacted soil removal at the stripped area. Verification surveys were performed following removal of radiological-impacted soils. Air sampling was performed at property boundaries. Removal action activity/quantity summaries:

a. Radiological material excavation and loading

	Previous Total	Current Week	Total To-Date
Containers	7	27	34

b. Successful Verification Survey Areas

Date	Grid Line	Grid Line
6/11/02	A to B	2 to 6
6/11/02	В	8.5

- 2. Worked on revisions to QAPP requested in USEPA letter dated June 4, 2002.
- 3. Prepared figures and documentation for upcoming meeting with MWRDGC concerning dewatering system effluent discharge permit.

U.S. Environmental Protection Agency STS Project No. 1-25585-XI, Correspondence No. 087 June 21, 2002 Page 2

Work Planned for June 17 - 21, 2002

- 1. Continue removal action activities. It is anticipated that removal action activities during this week will continue to consist of Phase I removal in Area 1.
- 2. Finalize revisions to QAPP pursuant to USEPA letter dated June 4, 2002
- 3. Distribute complete Work Plan document to removal action participants pending finalization of QAPP and receipt of Piper Marbury approval.
- 4. A meeting between MWRDGC, STS and TRS is scheduled for June 17, 2002 to discuss MWRDGC's letter dated May 30, 2002 and to resolve outstanding issues necessary to secure permit to discharge dewatering system effluent.
- 5. Responses and/or approvals currently pending include:
 - a. MWRDGC approval of Special Discharge Authorization.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Area Air Monitoring Summary Sheet - Weekly Effluent Concentration Report 341 East Ohio Street Project- Chicago, IL

North Mon	itor	Week #1 (2 days) and	Week #2 6/6/02-6/14	/02 (High Volume)
	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/6/02	524	2.22E-15	1.16E-12	
6/7/02		0.00E+00	0.00E+00	
6/10/02		3.30E-15	1.82E-12	
6/11/02	_	Q.00E+00	0.00E+00	
6/12/02		0.00E+00	0.00E+00	
6/13/02	524	4.90E-16	2.57E-13	
6/14/02	581	0.00E+00	0.00E+00	
	3877	6.01E-15	3.24E-12	

 $C_{\text{evg}} = \sum T_{\text{e,j}} C_{\text{i}}$ ΣT_s Time Weighted Weekly

Effluent Concentration (North) =

8.37E-16 uCi/ml

Eq A.9 NUREG 1400

Percentage of Release Limit of =

20.92%

4E-15uCi/ml

South Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCl/ml	Sample Min / Day	Comments
6/6/02	522	0.00E+00	0.00E+00	
6/7/02	525	8.86E-16	4.65E-13	
6/10/02	555	1.39E-15	7.71E-13	
6/11/02	575	0.00E+00	0.00E+00	
6/12/02	589	9.52E-16	5.61E-13	
6/13/02	528	0.00E+00	0.00E+00	
6/14/02	578	0.00E+00	0.00≝+00	
	3872	3.23E-15	1.80E-12	

 $C_{\text{avg}} = \underline{\Sigma} \, \underline{T}_{\text{e,i}} \, \underline{C}_{\text{i}}$

 ΣT_s

Time Weighted Weekly

Effluent Concentration (South) =

4.64E-16 uCi/ml

11.60%

Eq A.9 NUREG 1400

Percentage of Release Limit of =

4E-15uCi/ml

East Monitor

Date		Effluent Concentration In uCl/ml	Concentration x Sample Min / Day	Comments
6/6/02				Dominono
6/7/02		[· ·		
6/10/02	561	0.00E+00	1 1	
6/11/02	574	0.00臣+00	0.00€+00	
6/12/02	597	0.00E+00	0.00E+00	
6/13/02	527	1.95E-15	1.03E-12	
6/14/02	595	7.82E-16	4.65E-13	
	3910	2 73E-15	1 49F-12	

 $C_{\text{avg}} = \Sigma T_{a} \cdot C_{i}$

 ΣT_s

Eq A.9 NUREG 1400

Time Welghted Weekly

Effluent Concentration (East) =

3.82E-16 uCi/ml

Percentage of Release Limit of =

9.55%

4E-15uÇi/ml

West Monitor

	Time Sampled	Effluent Concentration	Concentration x	
Date	(minutes)	in uCi/ml	Sample Min / Day	Comments
6/6/02	526	0.00E+00	0.00E+00	
8/7/02	52 5	0.00E+00	0.00E+00	
6/10/02	562	3.05E-15	1.71E-12	
6/11/02	577	8.91E-16	5.14E-13	
6/12/02	594	0.00E+00	0.00E+00	
6/13/02	532	3.23E-15	1.72E-12	
6/14/02	591	0.00E+00	0.00E+00	
	3907	7.17E-15	3.95E-12	

 $C_{evg} = \Sigma T_{s,i} C_i$ Eq A.9 NUREG 1400

Time Weighted Weekly	· · · · · · · · · · · · · · · · · · ·
Effluent Concentration (West) =	1.01E-15 uCi/ml
Percentage of Release Limit of =	25.25%

Area Air Monitoring Summary Sheet - Staplex High Volume Pumps (Daily Analysis) 341 East Ohio Street Project - Chicago, IL

Week 1 & 2 June 6, 2002 - June 14, 2002

				total	cubic	sample	day after analysis					four day analysis					
Sample	date	start	stop	time	ft/ min	volume	date	gross	bkg	net	Concentration	date	gross	bkg	net	Concentration	4.00E-15
ID CI	sampled	time	time	sampled	(CFM)	anatyzed	analyzed	counts	counts	cpm	in uCi/mi	analyzed	counits	counts	cpm	in uCi/ml	uCi <i>lm</i> i
N1001	6/6/02	8:01am	4:45pm	524	42.5	2.21E+07	6/7/02	37	16	0.7	1.16E-14	6/11/02	21	17	0.133	2.22E-15	55.38%
S1001	6/6/02	8:11am	4:53pm	522	40	2.07E+07	6/7/02	30	16	0.46667	8.27E-15	6/11/02	15	17	0	0.00E+00	0.00%
E1001	6/6/02	7:57am	4:45pm	528	51	2.67E+07	6/7/02	23	16	0.23333	3.21E-15	6/11/02	17	17	0	0.00E+00	0.00%
W1001	6/6/02	8:07am	4:53pm	526	40	2.09E+07	6/7/02	31	16	0.5	8.79E-15	6/11/02	16	17	D	0.00E+00	0.00%
N1002	6/7/02	B:00am	4:50pm	530	52	2.73E+07	6/10/02	20	15	0.13333	1.79E-15	6/12/02	15	19	0	0.00E+00	0.00%
S1002	8/7/02	8:02am	4:47pm	525	53	2.76E+07	6/10/02	28	16	0.4	5.32E-15	6/12/02	21	19	0.067	6.86E-16	22.18%
E1002	6/7/02	8:02am	4:50pm	528	58	3.04E+07	6/10/02	26	18	0.33333	4.03E-15	6/12/02	15	19	0	0.00E+00	0.00%
W1002	6/7/02	8:04am	4:49pm	525	38	1.98E+07	6/10/02	18	16	0.06667	1.24E-15	6/12/02	19	19	0	0.00E+00	0.00%
N1003	6/10/02	8:04am	5:17pm	553	54	2.96E+07	6/11/02	173	17	5.2	6.44E-14	6/14/02	25	17	0.267	3.30E-15	82.60%
S1003	6/10/02	8:05am	5:20pm	55 5	48	2.64E+07	6/11/02	164	17	5.56667	7.73E-14	6/14/02	20	17	0.1	1.39E-15	34.72%
E1003	6/10/02	8: 04a m	5:25pm	561	43	2.39E+07	6/11/02	139	17	4.06667	6.24E-14	6/14/02	17	17	0	0.00E+00	0.00%
W1003	6/10/02	8:05am	5:27pm	562	36	2.01E+07	6/11/02	187	17	5.66667	1.04E-13	6/14/02	22	17	0.167	3.05E-15	76.19%
N1004	6/11/02	7:55am	5:28pm	573	58	3.29E+07	6/12/02	108	19	2,96667	3.30E-14	6/17/02	14	22	O	0.00E+00	0.00%
S1004		7:55am	5:30pm	575	48	2.74E+07	6/12/02	91	19	2.4	3.22E-14	6/17/02	15	22	0	5.00E+00	0.00%
E1004	6/11/02	7:55am	5:29pm	574	55	3.13E+07	6/12/02		19	2.4	2.81E-14	6/17/02	19	22	0	0.00E+00	0.00%
W1004		7:55am	5:32pm	577	48	2.74E+07	6/12/02	121	19	3.4	4.54E-14	6/17/02	24	22	0.067	8.91E-16	
N1005	6/12/02	7:53am	5: 45 pm	592	57	3.34E+07	6/13/02	61	18	1.43333	1.57E-14	6/17/02	18	22	0	0.00E+00	
S1005	6/12/02	7:51am	5:40pm	589	44	2.57E+07	6/13/02	83	18	2.16667	3.09E-14	6/17/02	24	22	0.067	9.52E-16	
E1005	6/12/02	7:51am	5:48pm	597	54	3.19E+07	6/13/02	53	18	1.16667	1.34E-14	6/17/02	14		0	0.00E+00	
W1005		7:53am	5:47pm	5 94	60	3.53E+07	6/13/02		18	0.76867	7.96E-15	6/17/02	20	22	0	0.00E+00	
N1006	6/13/02	8:01am	4:45pm	524	48	2.49E+07	6/14/02		17	0.1	1.47E-15	6/18/02	17	16	0.033	4.90E-16	
S1006		7:57am	4:45pm	528	48	2.51E+07	6/14/02		17	0.23333	3.41E-15	6/18/02	14	16	D	0.00E+00	
E1006	6/13/02	7:58am	4:45pm	527	60	3.13E+07	6/14/02	18	17	0.03333	3.90E-16	6/18/02	21	16	0.167	1. 9 5E-15	48.75%
W1006	6/13/02	7:54am	4:46pm	532	43	2.27E+07	6/14/02		17	0.7	1.13E-14	6/18/02	22	16	0,2	3.23E-15	
N1007	6/14/02	7:59am	5:40pm	581	49	2.82E+07	6/17/D2			0	0.00E+00	6/18/02	16	16	0	0.00E+00	B
S1007		7:57am	5:35pm	578	48	2.75E+07	6/17/02	_		0	0.00E+00	6/18/02	16	16	0	8.00€+00	
E1007		7:50am	5:45pm	5 95	53	3.13E+07	6/17/02			0.13333	1.56E-15	6/18/02	18	16	0.067	7.82E-16	
W1007	6/14/02	7:56am	5:47pm	591	54	3.16E+07	6/17/02	18	22	0	0.00E+00	6/18/02	14	16	- 0	0.00E+00	0.00%

Personal Air Monitoring Summary Sheet (PAM's -Daily Analysis) 341 East Ohio Street Project - Chicago, IL

*** All PAM's with elevated counts on day after analysis are recounted after 4 days (see attached)

				Flow	Total	Total		Gross	Bkg		Sample
Date				Rate	Time	Sample	Analysis	Counts	Counts	Net	Concentration
Collected	Name	Sample ID	PAM#	(lpm)	Sampled	Volume (ml)	Date	(30 min)	(30 min)	CPM	(uCi/m1)
6/6/02 F	R. Petty	PAM1001	002-574	2.5	200	500000	6/7/02	15	16	0.00	0.00E+00
8/6/02 (Glenn Huber	PAM1002	002-766	2.5	440	1100000	6/7/02	16	16	0.00	0.00E+00
6/7/02 F	R. Petty	PAM1003	002-574	2.5	530	1325000	6/10/02	19	18	0.10	1.94E-14
6/7/02 L	eonard Smith	PAM1004	002-766	2.5	535	1337500	6/10/02	17	16	0.03	8.40E-15
6/10/02 L	eonard Smith	PAM1005	002-768	2,5	540	1350000	6/11/02	33	17	0.53	1.01E-13
6/10/02 F	R. Petty/W.C.	PAM1006	002-574	2.5	550	1375000	8/11/02	39	17	0.73	1.37E-13
6/10/02 J	Justin Hubbert	PAM1007	002-675	2.5	410	1025000	6/11/02	20	17	0.10	2,50E-14
6/11/02 i	Leonard Smith	PAM1008	002-675	2.5	405	1012500	6/12/02	17	19	0,00	0.00E+00
6/11/02 F	R. Petty/W.C.	PAM1009	002-574	2.5	416	1040000	6/12/02	16	19	0.00	0.00E+00
6/12/02 (Glenn Huber	PAM1010	002-766	2.5	600	1500000	6/13/02	23	18	0.17	2.85E-14
6/12/02 F	R. Petty/ W.C.	PAM1011	002-574	2.5	587	1467500	6/13/02	22	18	0.13	2.33E-14
6/13/02 l	Leonard Smith	PAM1012	002-675	2.5	570	1425000	6/14/02	16	17	0.00	0.00E+00
6/13/02 F	R. Petty/W.C.	PAM1013	002-574	2.5	570	1425000	6/14/02	15	17	0.00	0.00E+00
6/14/02	Justin Hubbert	PAM1014	002-574	2.5	300	750000	6/17/02	21	22	0.00	0.00€+00
6/14/02 I	R. Petty/ W.C.	PAM1015	002-766	2.5	593	1482500	6/17/02	22	22	0.00	0.00E+00
6/14/02 1	Leonard Smith	PAM1016	006-234	2.5	370	925000	6/17/02	19	2 2	0.00	0.00E+00

Personal Air Monitoring Summary Sheet (PAM's -4 Day Analysis) 341 East Ohio Street Site - Chicago, IL

***Note: All samples on this page were analyzed after 4 days to allow for thorium daughter decay

Date Collected	Name	Sample ID	PAM#	Flow Rate (lpm)	Total Time Sampled	Total Sample Volume (mi)	Analysis Date	Gross Counts (30 min)	Bkg Counts (30 min)	Net CPM	Sample Concentration (uCi/ml)
6/7/02	R. Petty	PAM1003	002-574	2.5	530	1325000	6/12/02	17	19	0.00	0.00E+00
6/7/02	Leonard Smith	PAM1004	002-786	2.5	535	1337500	6/12/02	16	19	0.00	0.00E+00
6/10/02	Leonard Smith	PAM1005	002-768	2.5	540	1350000	6/14/02	16	17	0.00	0. 00E+00
6/10/02	R. Petty / W.C.	PAM1006	002-574	2.5	550	1375000	6/14/02	17	17	0.00	0.00E+00
6/10/02	Justin Hubbert	PAM1007	002-675	2.5	410	1025000	6/14/02	14	17	0.00	0.00E+00
8/12/02	Glenn Huber	PAM1010	002-766	2.5	600	1500000	6/17/02	22	22	0.00	0.00E+00
6/12/02	R. Petty / W.C.	PAM1011	002-574	2.5	587	1467500	6/17/02	20	22	0.00	0.00E+00



June 7, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No.083

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of May 27 - 31, 2002 and the work expected during the week of June 3 - 7, 2002.

Work Completed the Last Week

- STS project staff meeting was held to review identity of project team members (internal and external to STS), roles and responsibilities, site history, proposed removal action activities and sequence, documentation activities, and schedule for upcoming site removal action work.
- Submittal of the application to Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) for Special Discharge Authorization of dewatering discharge was delayed at suggestion of MWRDGC pending receipt of correspondence from MWRDGC concerning discharge application issue.
- 3. Issued complete copy of Amended Work Plan document to Piper Marbury Rudnick & Wolf for approval prior to production and general distribution of copies to project parties.
- 4. Issued notification of Health & Safety training scheduled for June 5, 2002 to companies involved with on-site removal action and waste transportation activities.

Planned for This Week

- 1. Continue preparation for the beginning of excavation.
- 2. Receipt and review of MWRDGC correspondence concerning discharge permit issues.
- 3. Receipt of USEPA letter of approval concerning Perimeter Drilling Report and field laboratory.

- 4. Pre-construction health and safety briefing to be held on June 5, 2002 at Time-Life building. Attendees to include all on-site and waste transportation personnel. Distribute Health & Safety plans to each company involved with on-site activities.
- 5. Mobilization of equipment and machinery required for start of excavation on June 6, 2002.
- 6. Contact DIGGER for final utility clearance.
- 7. Commence removal action (Phase I/ Area 1 excavation) on June 6, 2002.
- 8. Distribute complete Work Plan document to removal action participants.
- 9. Responses and/or approvals currently pending include:
 - a. MWRDGC approval of Special Discharge Authorization.
- 10. Receipt of comments on QAPP.

Other Upcoming Activities

1. A meeting between MWRDGC, STS, and TRS is scheduled for June 17 to discuss MWRDGC's letter dated May 30, 2002 and to resolve outstanding issues necessary to secure permit to discharge dewatering system effluent.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS, CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



7/10-2



STS Consultants, Ltd. Solutions through Science & Engineering

June 10, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No.084

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of June 3 - 7, 2002 and the work expected during the week of June 10 - 14, 2002.

Work Completed the Last Week

- Received MWRDGC letter dated May 30, 2002 concerning discharge of dewatering well effluent. A meeting between MWRDGC, STS, and TRS is scheduled for June 17 to resolve outstanding issues necessary to secure permit to discharge dewatering system effluent.
- 2. Received USEPA letter dated May 31, 2002 approving Perimeter Drilling Report and field laboratory.
- Received USEPA letter dated June 4, 2002 concerning QAPP.
- 4. Held a one-day pre-construction Health & Safety meeting at Time-Life building on June 5, 2002. The meeting was attended by personnel from STS, Kerr McGee, Budron, Envirocon, Double M Trucking, and SAHCI, and USEPA. Presentations were given by STS (Site History, Site Operations, Health & Safety), Hawks Logistics (DOT requirements), and SAHCI (Radiation Safety).
- 5. Budron, Kerr McGee, STS, and SAHCI mobilized equipment and machinery to the site in preparation for start of work.
- 6. Contacted DIGGER for final site utility marking/clearance.
- 7. Commenced site removal action activities on June 6, 2002.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 084 June 10, 2002 Page 2

Planned for This Week

- 1. Continue removal action activities. It is anticipated that removal action activities during this week will consist primarily of Phase I/Area 1.
- 2. Make revisions to QAPP pursuant to USEPA letter dated June 4, 2002
- 3. Distribute complete Work Plan document to removal action participants.
- 4. Responses and/or approvals currently pending include:
 - a. MWRDGC approval of Special Discharge Authorization.

Other Upcoming Activities

1. A meeting between MWRDGC, STS, and TRS is scheduled for June 17 to discuss MWRDGC's letter dated May 30, 2002 and to resolve outstanding issues necessary to secure permit to discharge dewatering system effluent.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Jø∕n S. Esser, P.E., P.G. ≸enior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



May 31, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Figion 5
7 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No.082

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of May 20 - 24, 2002 and the work expected during the week of May 27 - 31, 2002.

Work Completed the Last Week

- 1. The draft application to Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) for Special Discharge Authorization of dewatering discharge was transmitted to TRS for review and signatures.
- 2. Obtained fully executed contract between TRS and Budron for excavation work.
- 3. Compiled Work Plan document components in preparation for photocopying and binding.
- 4. Provided USEPA with formal notice of scheduled remediation start date, updated project schedule, and training schedule and location.
- 5. Project conference call between STS and TRS representative to review project status and action items.

Planned for This Week

- 1. Continue preparation for the beginning of excavation.
- 2. STS project team pre-mobilization meeting to review project activities, roles, and responsibilities during upcoming remediation phase.
- 3. Hand-deliver Special Discharge Authorization application to MWRDGC following TRS review.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 082 May 31, 2002 Page 2

- 4. Provide complete Work Plan document to TRS for final completeness review prior to production copying.
- 5. Provide notice to all contractors of training date, location, and start of work date.
- 6. Responses and/or approvals currently pending include:
 - a. Perimeter Drilling Report.
 - b. Field laboratory procedure approval.
 - c. MWRDGC approval of Special Discharge Authorization.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G.

Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



May 22, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 081

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the two weeks of May 6 - 10 and May 13 - 17, 2002 and the work expected during the week of May 20 - 24, 2002.

Work Completed the Last Two Weeks

- 1. Continued preparation of application to MWRDGC for special discharge authorization of dewatering discharge.
- 2. Obtain soil sample for characterization of non-radiological, non-pesticide impacted soil for disposal at CID. Incorporate analytical results and submit application to CID for non-radiological non-pesticide impacted soil.
- 3. Met with Chicago Department of Transportation Office of Underground Coordination to review utility responses to wellpoint drilling permit request (OUC#25121). Permit authorization was granted.
- 4. Finalized excavation contract and sent same out for signatures.
- 5. Received notice from USEPA on approval of Work Plan.
- 6. Notified Kerr-McGee of pending start of work June 5, 2002 for training and June 6, 2002 for field work.

Planned for This Week

- 1. Continue preparation for the beginning of excavation.
- 2. Submit Special Discharge Authorization application to Metropolitan Water Reclamation District of Greater Chicago (MWRDGC).
- Update action item list.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 081 May 22, 2002 Page 2

- 4. Responses and/or approvals currently pending include:
 - a. Perimeter Drilling Report.
 - b. Field laboratory procedure approval.
 - c. MWRDGC approval of Special Discharge Authorization.
- 5. Provide USEPA with formal notice of scheduled start including training schedule and location.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee





May 9, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 078

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of April 29 - May 3, 2002 and the work expected during the week of May 6 - 10, 2002.

Work Completed the Last Week

- 1. Continued communication with MWRDGC concerning discharge of water generated during excavation dewatering.
- 2. Commence preparation of MWRDGC special discharge authorization request.
- 3. Review/compile list of upcoming project activities and action items.
- 4. Submitted revised Waste Stream Application to CID for non-radiological pesticide-impacted soil.
- 5. Discussion with Fred Micke of USEPA concerning status of Work Plan review and resolution of laboratory comparison issues.
- 6. Obtain soil sample for characterization of non-radiological, non-pesticide impacted soil for disposal at CID.

- 1. Continue preparation for the beginning of excavation.
- 2. Meeting with Chicago Department of Transportation Office of Underground Coordination to review utility responses to wellpoint drilling permit request (OUC#25121).
- 3. Submit Waste Stream application to CID for non-radiological non-pesticide impacted soil.

- 4 Responses and or approvals currently pending include:
 - a Revised Removal Action Work Plan and related documents.
 - b. Chicago Department of Transportation approval of wellpoint installation (OUC #25121)
 - c. Excavation contract review and execution by Budron.
 - d. Field laboratory procedure approval.
 - e. MWRDGC permit application.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely

STS CONSULTANTS, LTD

John S. Esser. P.E., P.G Sphior Project Engineer

cc Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF

SE-5J

May 15, 2002

VIA FACSIMILE AND U.S. MAIL

Mr. Richard G. Berggreen, C.P.G. STS Consultants, Ltd. 750 Corporate Woods Parkway Vernon Hills, IL 60061-3153

RE: 341 East Ohio Street Workplan Lindsay Light II Site/RV3 North McClurg Court

Dear Mr. Berggreen:

The U.S. Environmental Protection Agency (USEPA) has reviewed the Workplan for 341 East Ohio Street dated March 13, 2002. USEPA hereby approves this Workplan which TRS submitted in response to the March 1, 2001 Action Memorandum regarding the radioactive contamination at this property and notes that the approved Workplan is consistent with the Administrative Order issued June 6, 1996 Lindsay Light II/316 E. Illinois, Chicago, Illinois, Unilateral Administrative Order, Docket No. V-W-96-C-353, as amended March 29, 2000 by Lindsay Light II, RV# North Columbus Drive Administrative Order. Note that the USEPA Action Memorandum dated March 1, 2001 that was issued with respect to the GMO/341 E. Ohio site designated the action as a time-critical removal for which no Environmental Engineering Cost Analysis (EECA) is required.

Work at the 341 East Ohio Street site can begin immediately. However, USEPA requests that the work schedule for this project be given to USEPA, as soon as possible, so that we can assure proper coverage for this project.

If you have questions regarding this letter, please contact me, as soon as possible, at (312) 886-5123 or contact Verneta Simon, On-Scene Coordinator, at (312) 886-3601, or Larry Jensen, Senior Health Physicist at (312) 886-5026.

Sincerely,

Fredrick A. Micke, P.E.

On-Scene Coordinator ERB Section #3

cc: Mark Krippel, Kerr-McGee

Fredrick a. Micke

bcc: Larry Jensen, SE-5J Verneta Simon, SE-5J Debbie Regel, SE-5J Linda Nachowicz, SE-5J Mary Fulghum, C-14J Padma Klejwa, C-14J



I.1 5/3/02

May 3, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 077

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of April 22 - 26, 2002 and the work expected during the week of April 29 – May 3, 2002.

Work Completed the Last Week

- 1. Follow-up conversation with MWRDGC concerning their April 10, 2002 letter pertaining to dewatering discharge permit.
- 2. Collect soil sample for completion of testing for disposal approval at CID.

- 1. Continue preparation for the beginning of excavation.
- 2. Continue working on MWRDGC discharge permit issue.
- 3. Prepare list of Health and Safety training attendees. Training date will be scheduled after the mobilization date for the start of excavation is identified.
- 4. Submit revised Waste Stream Application to CID for pesticide impacted soil.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 077 May 3, 2002 Page 2

- 5. Responses and/or approvals currently pending include:
 - a. Revised Removal Action Work Plan and related documents.
 - b. Chicago Department of Transportation approval of wellpoint installation (OUC #25121)
 - c. Excavation contract review and execution by Budron.
 - d. Field laboratory procedure approval.
 - e. MWRDGC permit application.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Spnior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee





April 26, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 076

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of April 15 - 19, 2002 and the work expected during the week of April 22 – April 26, 2002.

Work Completed the Last Week

- 1. Follow-up conversation with MWRDGC concerning their April 10, 2002 letter pertaining to dewatering discharge permit.
- 2. Scheduled utility review meeting with CDOT for wellpoint installation permit (OUC#25121). Meeting date is May 6, 2002.
- 3. Contacted Kerr-McGee regarding laboratory comparison response letter. Requested USEPA provide laboratory comparison inquiry letter.
- 4. Discussed Profile Application with Waste Management for management of pesticide impacted materials.
- 5. Received Excavation Permit authorization for Board of Underground (OUC File # 24207).

- 1. Continue preparation for the beginning of excavation.
- 2. Continue working on MWRDGC discharge permit issue.
- 3. Prepare list of Health & Safety training attendees. Training date will be scheduled after the mobilization date for the start of excavation is identified.

STS Project No. 1-25585-XG, Correspondence No. 076 April 26, 2002 Page 2

- 4. Submit revised Waste Stream Application to CID for pesticide impacted soil.
- 5. Responses and/or approvals currently pending include:
 - a. Revised Removal Action Work Plan and related documents.
 - b. Chicago Department of Transportation approval of wellpoint installation (OUC #25121)
 - c. Excavation contract review and execution by Budron.
 - d. Field laboratory procedure approval.
 - e. MWRDGC permit application.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee





April 18, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 075

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of April 8 - 12, 2002 and the work expected during the week of April 15 – April 19, 2002.

Work Completed the Last Week

- 1. Telephone conversation with Jeannette Greg of ComEd Real Estate division. She is preparing letter for Chicago Department of Transportation, Office of Underground Coordination confirming no active lines or equipment on-site.
- 2. Received Permit Issuance Authorization dated April 8, 2002 from Chicago Department of Transportation for planned excavation activities (OUC#24207).
- Received letter dated April 10, 2002 (via facsimile) from MWRDGC responding to STS's December 21, 2001 application for a one-time discharge of dewatering system water during upcoming excavation work. MWRDGC proposes to issue permit under their environmental remediation wastewater ordinance.
- 4. Provide additional data to Waste Management in support of pesticide-impacted soil waste stream application.

- 1. Continue preparation for the beginning of excavation.
- 2. Follow-up with MWRDGC concerning their letter dated April 10, 2002 to discuss the implications and applicability of their proposal to grant permit under the environmental remediation wastewater ordinance.
- 3. Contact Department of Transportation Bureau of Inspection to schedule utility response review meeting for wellpoint installation permit application (OUC#25121).

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 075 April 18, 2002 Page 2

- 4. Responses/approvals currently pending include:
 - a. Revised Removal Action Work Plan and related documents
 - b. Chicago Department of Transportation approval of wellpoint installation (OUC #25121) and excavation (OUC #24207)
 - c. Excavation contract review by Budron
 - d. Field laboratory procedure approval

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS COMBULTANTS, LTD.

J¢h∕n S. Esser, P.E., P.G S∉nior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



I./ 4/10/02

April 10, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 074

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of April 1 – April 5, 2002 and the work expected during the week of April 8 – April 12, 2002.

Work Completed the Last Week

- Follow-up call to MWRDGC requesting information on status of discharge approval. MWRDGC representative stated that application being reviewed for applicability under their remediation ordinance standards. They stated they anticipate issuing response letter in the coming week.
- 2. Transmitted letter to Chicago Department of Transportation, Office of Underground Coordination, requesting approval of excavation permit (OUC #24207).
- 3. Transmitted letter to USEPA requesting approval of field laboratory for radiological analysis of soils.
- Received revised Plat of Survey drawing (Revision dated April 2, 2002) from Chicago Guarantee Survey Company. The revised drawing includes AT&T Broadband utility lines along Ohio Street.
- 5. Transmitted updated Plat of Survey to Chicago Department of Transportation Bureau of Inspection in support of OUC #24207 and OUC #25121.
- Obtained truck route from Kerr-McGee for radiologically-impacted soil.
- 7. Obtained truck route from Budron for pesticide-impacted soil.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 074 April 10, 2002 Page 2

Planned for This Week

- 1. Continue preparation for the beginning of excavation.
- 2. Follow-up call to MWRDGC on status of discharge permit.
- 3. Estimate proportional shares for Budron and Kerr-McGee contributions for bonding.
- 4. Responses/approvals currently pending include:
 - a. Revised Removal Action Work Plan and related documents
 - b. MWRDGC one-time discharge permit
 - c. Chicago Department of Transportation approval of wellpoint installation (OUC #25121) and excavation (OUC #24207)
 - d. Excavation contract review by Budron
 - e. Field laboratory procedure approval

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee





April 4, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 071

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of March 25 – March 29, 2002 and the work expected during the week of April 1 – April 5, 2002.

Work Completed the Last Week

- Follow-up call to MWRDGC requesting information on status of discharge approval. MWRDGC representative stated that application being reviewed for applicability under their remediation ordinance standards. They expect to resolve internally and issue letter in the coming week.
- 2. Follow-up with Budron concerning licensed drainlayer. Budron stated they did not have a licensed drainlayer identified.
- 3. Follow-up call to ComEd requesting information on status of clearance letter ComEd was to issue to BOU.
- 4. Drafted letter to Chicago Department of Transportation, Office of Underground Coordination, requesting approval of excavation permit (OUC#24207).
- 5. Drafted letter to USEPA requesting approval of field laboratory for radiological analysis of soils.
- Placed order with Chicago Guarantee Survey Company for update to Plat of Survey drawing for the site. Revision consists of the addition of AT&T Broadband utility lines along Ohio Street.
- 7. Requested truck route map from Kerr-McGee.
- 8. Submitted waste stream profile for pesticide impacted soil to CID.

Planned for This Week

- 1 Continue preparation for the beginning of excavation
- 2 Issue letter to Chicago Department of Transportation, Office of Underground Coordination requesting approval of excavation permit (OUC#24207).
- 3 Issue letter to USEPA requesting approval of field laboratory for radiological analysis of soils
- 4 Provide ComEd contact information to Chicago Department of Transportation for their follow-up
- 5. Follow-up call to MWRDGC on status of discharge permit.
- 6 Estimate probable trucking volume for non-radiological impacted soils for use in quantifying proportion of contribution to roadway protection bond by contractors.
- 7 Update waste profile with CID for non-radiological soils to identify TRS as customer for invoicing instead of STS
- 8 Provide TRS with estimate of typical excavation production rates for use in preparing bid quantity estimate for excavation of non-radiological impacted soils.
- 9 Follow-up request for truck route map from Kerr-McGee and Budron.
- 10 Provide review comments to Piper Marbury Rudnick & Wolf concerning current draft of excavation contract between TRS and Budron
- 11 Identify licensed drainlayer for sewer permit filing.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely.

STS CONSULTANTS, LTD

John S. Esser P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Knppel, Kerr-McGee



3/28/02

March 28, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 066

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of March 18 – March 22, 2002 and the work expected during the week of March 25 – March 29, 2002.

Work Completed the Last Week

- 1. Prepared punch list for start of work. Submitted to TRS for review and discussion.
- Continued to work with Waste Management to obtain approval for acceptance of pesticideimpacted materials at CID Landfill.
- Placed call to ComEd requesting information on status of utility clearance letter.

- 1. Continue preparation for the beginning of excavation.
- 2. Request Budron identify licensed drainlayer to make submittal to Chicago Department of Sewers.
- 3. Followup with MWRDGC regarding permit.
- 4. Followup with ComEd regarding letter they were to prepare and send to the City confirming no ComEd utilities on-site.
- 5. Submit AT&T Broadband utility map to Chicago Guarantee Survey for addition to Plat of Survey.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 066 March 28, 2002 Page 2

- 6. Prepare letter to USEPA requesting approval of field radiological testing laboratory.
- 7. Request truck route map from Kerr-McGee and Budron.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

John S. Esser, P.E., P.G. Senior Project Engineer

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Date:	February 25, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax #. 312-353-9176
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax#: 312-630-7350
	Harold Holmberg	Kerr-McGee	· ·	Fax#: 405-270-4112
	Mark Krippel/Bemie Bono	Кеп-МсСее	·	Fax#: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover: 3	3		
CC:		Fax No.:		
From:	Rich Berggreen	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urger	nt	☐ Please Correnent/Reply	As Requested	☐ Original to Follow
Mess	age.			

IMPORTANT: This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.



February 25, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE. Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 055

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of February 18 – February 22, 2002 and the work expected during the week of February 25 – March 1, 2002.

Work Completed the Last Week

- Incorporated review comments on pesticide impacted soil report. Continued report preparation for submittal to USEPA.
- 2 Follow-up contact with ComEd regarding Board of Underground permit approval on excavation.
- 3. Follow-up contact with Board of Underground on submittal of dewatering well alignment across center of site.
- 4. Continue preparation of application to City of Chicago Department of Sewers for dewatering effluent discharge.

- 1. Continue preparation for the beginning of excavation. Develop revised schedule including anticipated start date, site specific training, order and delivery of shipping containers, etc.
- 2. Resolve Board of Underground issue with ComEd for excavation deeper than 12 feet.
- 3. Submit waste stream profile application to CID landfill for pesticide impacted soil.
- 4. Obtain final review comments on pesticide report in preparation for submission to USEPA as attachment to Amended Removal Action Work Plan.

TU:S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 054 February 25, 2002 Page 2

- 5. Continue preparation for submission of Amended Health and Safety Plan to USEPA as attachment to Amended Removal Action Work Plan.
- 6. Follow-up with Metropolitan Water Reclamation District of Greater Chicago and City of Chicago Department of Sewers regarding permit to discharge dewatering water.
- 7. Continue preparation of application to City of Chicago Department of Sewers.

Please contact me at 847-279-2500 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Richard G. Berggreen, C.P.G.

Principal Geologist

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Date:	February 19, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax#: 312-353-9176
	Timothy Ramsey	Piper Marbury F	Rudnick & Wolfe	Fax#: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax#: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax#: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover	: 3		
CC:		Fax No.:		
From:	Rich Berggreen	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urger	nt For Signature For Review	Pléase Comment/Reply	☐ As Requested	☐ Original to Follow
Messa	nge:			

IMPORTANT: This facsimile is intended only for the of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this facsimile is not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and return this facsimile to us at the above address via the United States Postal Service. Thank you.





February 19, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Smion, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE. Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 054

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of February 11 — February 15, 2002 and the work expected during the week of February 18 — February 22, 2002.

Work Completed the Last Week

- Completed revisions to Amended Removal Action Work Plan incorporating pesticide removal tasks. Furnished copies to TRS for distribution.
- Completed revisions to Health and Safety Plan reflecting chlordane pesticides as additional potential contaminant. Furnished copies to TRS for distribution.
- Completed application of waste stream profile for pesticide impacted soil for disposal at CID landfill, Submitted to TRS for review prior to submittal to CID.
- 4 Incorporated review comments on pesticide impacted soil report. Continued report preparation for submittal to USEPA.
- 5. Follow-up contact with ComEd regarding Board of Underground permit approval on excavation.
- Follow-up contact with Board of Underground on submittal of dewatering well alignment across center of site submitted previous week.

Planned for This Week

1. Continue preparation for the beginning of excavation. Develop revised schedule including anticipated start date, site specific training, order and delivery of shipping containers, etc.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 054 February 19, 2002 Page 2

Resolve Board of Underground issue with ComEd for excavation deeper than 12 feet.

- 2. Submit waste stream profile application to CID landfill for pesticide impacted soil.
- 3. Obtain final review comments on pesticide report in preparation for submission to USEPA as attachment to Amended Removal Action Work Plan.
- 4. Continue preparation for submission of Amended Health and Safety Plan to USEPA as attachment to Amended Removal Action Work Plan.
- 5. Follow-up with Metropolitan Water Reclamation District of Greater Chicago and City of Chicago Department of Sewers regarding permit to discharge dewatering water.

Please contact me at 847-279-2500 with any questions regarding this report.

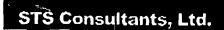
Sincerely,

STS CONSULTANTS, LTD.

Richard G. Berggreen, C.P.G.

Principal Geologist

cc; Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



750 Corporate Woods Parkway Vernon Hills, IL, 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Darb.	rebruary 4, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover:	3		
CC:	<u> </u>	Fax No.:		
From:	Julie Apolinario	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urger	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Messa	age:			·

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February 4, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 049

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultarits, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of January 28 – February 1, 2002and the work expected during the week of February 4 – February 8, 2002.

Work Completed the Last Week

- 1. Continued working on the perimeter area radiological drilling program report.
- Continued preparation of the addendum to the Work Plan to address changes in the work scope and sequencing related to management of pesticide-impacted soils.
- 3. Continued preparation of the report on pesticide-impacted soils on site.
- 4. Worked on the waste profile for submittal to Waste Management.
- Continued preparation of an additional application to the Board of Underground covering the center line of wellpoints for the dewatering.

- 1. Continue preparation for the beginning of excavation.
- Continue preparation of a report of pesticide-impacted soils for submittal to USEPA as Work Plan addendum.
- 3. Continue to work on perimeter area radiological drifling program report to the USEPA as a Work Plan addendum.
- 4. Submit waste profile to Waste Management for disposal of pesticide-impacted soils.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 049 February 4, 2002 Page 2

- 5. Work on the Work Plan addendum to address changes in the work scope and sequencing related to management of pesticide-impacted soils.
- 6. Work on the Board of Underground application for the center wellpoints for dewatering.
- 7. Work on utility issues relating to the ComEd vault on the site and the effect of those issues on the Board of Underground process.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee



STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Listor:	January 31, 2002			
To:	Fred Micke/Verneta Simon	USEPA	<u></u>	Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury Rudr	nick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee	· · · · · · · · · · · · · · · · · · ·	Fax #: 630-231-3990
	Thornas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover: 3	B		
CC:		Fax No.:		
From:	Julie Apolinario	Phone: 84	7-279-2500	
Re:	341 East Ohio Street Site			
Urge	nt For Signature For Review	☐ Picase Comment/Reply	As Requested	Original to Follow
Messa	age:			

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January 31, 2082

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 048

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of January 21 – January 25, 2002 and the work expected during the week of January 28 – February 1, 2002.

Work Completed the Last Week

- 1. Continued working on the perimeter area radiological drilling program report.
- 2. Continued preparation of the addendum to the Work Plan to address changes in the work scope and sequencing related to management of pesticide-impacted soils.
- 3. Continued preparation of the report on pesticide-impacted soils on site.
- Worked on the waste profile for submittal to Waste Management.
- Commenced preparation of an additional application to the Board of Underground covering the center line of wellpoints for the dewatering.

- Continue preparation for the beginning of excavation.
- Continue to evaluate the effect of pesticide-impacted soils on the site. Prepare report of site investigation for submittal to USEPA as Work Plan addendum.
- Continue to work on perimeter area radiological drilling program report to the USEPA as a Work Plan addendum.
- Submit waste profile to Waste Management for disposal of pesticide-impacted soils.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 048 January 31, 2002 Page 2

- 5. Work on the Work Plan addendum to address changes in the work scope and sequencing related to management of pesticide-impacted soils.
- 6. Work on the Board of Underground application for the center wellpoints for dewatering.
- 7. Work on utility issues relating to the ComEd vault on the site and the effect of those issues on the Board of Underground process.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

STS Consultants, Ltd.

Date: January 24 2002

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

	- · · · · · · · · · · · · · · · · · · ·			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg *	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover:	3		
CC:		Fax No.:		
From:	Julie Apolinario	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urger	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Mess	age:			

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1/24/02

January 24, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 047

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of January 14 – January 18, 2002 and the work expected during the week of January 21 – January 25, 2002.

Work Completed the Last Week

- 1. Continued working on the perimeter area radiological drilling program report.
- Submitted the revised QAPP to USEPA.
- 3. Discussed final details of dewatering proposal including work sequencing with the dewatering subcontractor and the general contractor.
- 4. Met with the Board of Underground concerning the dewatering sequencing. A revised submittal for utility clearance must be submitted for the Board of Underground approval prior to commencing dewatering activities.

- 1. Continue preparation for the beginning of excavation.
- 2. Continue to evaluate the effect of pesticide-impacted soils on the site. Prepare report of site investigation for submittal to USEPA as Work Plan addendum.
- 3. Continue to work on perimeter area radiological drilling program report to the USEPA as a Work Plan addendum.
- 4. Submit waste profile to Waste Management for disposal of pesticide-impacted soils.
- 5. Work on the Work Plan addendum to address changes in the work scope and sequencing related to management of pesticide-impacted soils.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 047 January 24, 2002 Page 2

6. Work on utility issues relating to the ComEd vault on the site and the effect of those issues on the Board of Underground process.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Hardd Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

ૐ.



STS Consultants, Ltd.

750 Corporate Woods Parkway Vemon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Date:	January 18, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury R	ludnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Кеп-МсGее		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
 	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover: 3		 	
CC:		Fax No.:		
From:	Julie Apolinario	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urger	nt [] For Signature [] For Review [☐ Please Comment/Reply	As Requested	☐ Original to Follow
Messa	age:			

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January 17, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 044

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of January 7 – January 11, 2002 and the work expected during the week of January 18, 2002.

Work Completed the Last Week

- 1. Continued working on the perimeter area radiological drilling program report.
- Discussed management options for pesticide-impacted soils with USEPA and IEPA. Currently evaluating options and approaches to addressing pesticide-contaminated soils during the excavation process.

- 1. Continue preparation for the beginning of excavation.
- Continue to evaluate the effect of pesticide-impacted soils on the site. Prepare report of site investigation for submittal to USEPA as Work Plan addendum.
- Submit revised QAPP to USEPA.
- 4. Submit perimeter area radiological drilling program report to the USEPA as a Work Plan addendum.
- Discuss final details of dewatering proposal including work sequencing with the dewatering subcontractor and the general contractor.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 044 January 17, 2002 Page 2

7. Work on utility issues relating to the ComEd vault on the site and the effect of those issues on the Board of Underground process.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

P.01/03



750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

STS Consultants, Ltd.

Date:	January 11, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury F	Rudnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #. 312-335-9365
Pages	being transmitted, incl. Cover	3		
CC:		Fax No.:		
From:	Julie Apolinario	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
Urgen	nt For Signature For Review	Please Comment/Reply	As Requested	Coriginal to Follow
Messa	ege:			

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January 11, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 040

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of December 31, 2001 – January 4, 2002 and the work expected during the week of January 7 – January 11, 2002.

Work Completed the Last Week

- Completed draft perimeter area radiological drilling program. Received internal review comments and began revisions for submittal to USEPA.
- Received verbal confirmation of Board of Underground approval for the excavation work. Awaiting Board of Underground letter outlining insurance and deposit requirements for final permit issuance.

- 1. Continue preparation for the beginning of excavation.
- Continue to evaluate the effect of pesticide-impacted soils on the site. Prepare report of site investigation for submittal to USEPA as Work Plan addendum.
- Submit Chicago Department of Sewers permit application.
- 4. Submit revised QAPP to USEPA.
- 5. STS will continue to work on the perimeter area radiological drilling program report for submission to the USEPA as a Work Plan addendum.
- Work on the dewatering proposals for selection of a dewatering subcontractor and discussion of logistical issues including work sequencing.

STS Project No. 1-25585-XG, Correspondence No. 040 January 11, 2002 Page 2

7. Work on utility issues relating to the ComEd vault on the site and the effect of those issues on the Board of Underground process.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

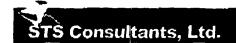
STS CONSULTANTS, LTD.

Julie Apolinario
Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital





750 Corporate Woods Parkway Vernon Hills, IL. 60051 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Date:	January 3, 2002			
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee	·	Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover:	3		
CC:		Fax No.:		
From:	Julie Apolinario	Phone:	847-279-2500	
Re:	341 East Ohio Street Site			
☐ Lirger	nt For Signature For Review	Please Comment/Reply	As Requested	☐ Original to Follow
Messa	ige:			

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STS Consultants, Ltd. // Solutions through Science & Engineering

January 3, 2002

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 039

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the weeks of December 17 – December 28, 2001 and the work expected during the week of December 31, 2001 – January 4, 2002.

Work Completed the Last Two Weeks

- 1. Submitted MWRDGC one-time discharge permit for dewatering during excavation.
- 2. Revised survey drawing per conversation with A T & T for finalization of Board of Underground approval process for the excavation.
- 3. Met with USEPA, Velsicol, TRS, and Kerr-McGee on December 18, 2001 to discuss options related to handling of pesticide-impacted soils during excavation.
- 4. Discussed remaining QAPP comment with USEPA and revised the QAPP to include the requested information.

- 1. Continue preparation for the beginning of excavation.
- Continue to evaluate the effect of pesticide-impacted soils on the site.
- Submit Department of Sewers permit application.
- 4. Submit revised QAPP to USEPA.
- 5. Revise survey drawings per conversation with ComEd and submit revised survey drawing to the Board of Underground.
- Continue to work on the perimeter area radiological drilling program report to be submitted to the USEPA.

J.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 039 January 2, 2002 Page 2

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Knippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital



STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510

FACSIMILE TRANSMISSION

Fred Micke/Verneta Simon	USEPA	Fax #: 312-353-9176	
Timothy Ramsey	Piper Marbury Rudnick & Wolfe	Fax #: 312-630-7350	
Harold Holmberg	Kerr-McGee	Fax #: 405-270-4112	
Mark Krippel/Bernie Bono	Kerr-McGee	Fax #: 630-231-3990	
Thomas Pabian/TerryMcKay	Capri Capital	Fax #: 312-335-9365	
peing transmitted, incl. Cover:	3		
	Fax No.:		
Julie Apolinario	Phone: 847-279-2500		
341 East Ohio Street Site			
For Signature For Review	Please Comment/Reply As Requested	Original to Follow	
	Timothy Ramsey Harold Holmberg Mark Krippel/Bernie Bono Thomas Pabian/TerryMcKay meing transmitted, incl. Cover: Julie Apolinario 341 East Ohio Street Site	Timothy Ramsey Piper Marbury Rudnick & Wolfe Harold Holmberg Kerr-McGee Mark Krippel/Bernie Bono Kerr-McGee Thomas Pabian/TerryMcKay Capri Capital Plant No.: Julie Apolinario Phone: 847-279-2500	

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STS Consultants, Ltd.
Solutions through Science & Engineering

December 20, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 037

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of December 10 – December 14, 2001 and the work expected during the week of December 21, 2001.

Work Completed Last Week

- 1. Continued to work on the report of the perimeter area radiological drilling program.
- Continued analysis of the TCLP test results from soil samples taken from the vicinity of the former hazardous waste storage area. Began preparation of the report of the complete laboratory data from these borings.
- 3. Met on December 13, 2001 with TRS, Velsicol, and Kerr-McGee to discuss options relating to pesticide-impacted soils.
- 4. Discussed utility conflicts with Commonwealth Edison and AT&T Broadband to resolve Board of Underground concerns.

- Continue preparation for the beginning of excavation.
- Submit MWRDGC one-time discharge permit for dewatering during excavation.
- 3. Revise survey drawing per conversations with ComEd and A T & T for finalization of Board of Underground approval process for the excavation.
- Meet with USEPA, Velsicol, TRS, and Kerr-McGee on December 18, 2001 to discuss
 options related to handling of pesticide-impacted soils during excavation.

☼ U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 037 December 20, 2001 Page 2

5. Discuss remaining QAPP comment with USEPA and revise the QAPP to include the requested information.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital



December 11, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 033

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the weeks of December 3 – December 7, 2001 and the work expected during the week of December 10 – December 14, 2001.

Work Completed Last Week

- 1. Continued to work on the report of the perimeter area radiological drilling program.
- 2. Continued analysis of the TCLP test results and began preparation of report of the complete laboratory data from these borings.
- 3. Finalized the MWRDGC discharge application.
- 4. Contacted Commonwealth Edison and AT&T Broadband to resolve utility conflicts.

- 1. Continue preparation for the beginning of excavation.
- 2. Continue to investigate the effect of pesticide-impacted soils on the site.
- 3. Meet on December 13, 2001 with TRS, Velsicol, and Kerr-McGee to discuss options relating to pesticide-impacted soils.
- 4. Submit MWRDGC one-time discharge permit for dewatering during excavation.

**U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 033 December 11, 2001 Page 2

5. Revise survey draining per conversations with ComEd and A T & T for finalization of Board of Underground approval process for the excavation.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

PMS. ByJulie Apolinario
Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee

Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital



December 5, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 030

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the weeks of November 26 - November 30, 2001 and the work expected during the week of December 3 – December 7, 2001.

Work Completed Last Week

- 1. Began work on the report of the perimeter area radiological investigation drilling program.
- 2. Obtained preliminary TCLP test results for the ten soil borings. Began analysis and report of the complete laboratory data from these borings.
- 3. Received the remaining components of the groundwater analysis from the perimeter drilling locations. Began analysis and report of the results. Began preparation of the MWRDGC application for discharge of dewatering water to sewer.
- 4. Collected a groundwater sample from the location of the former RCRA hazardous waste storage facility as part of the submittal to MWRDGC for the one-time discharge permit. The sample is being analyzed by Grace Laboratory.
- 5. Met with Chicago Department of Transportation concerning Board of Underground sign-off for the site excavation. Need to resolve potential conflicts with Commonwealth Edison and AT&T Broadband.

- 1. Continue preparation for the beginning of excavation.
- Continue to investigate the treatment and disposal options (and related costs) for any RCRA
 hazardous wastes (for pesticides) identified on site, including evaluation of the different
 options for any hazardous wastes which are radiologically impacted and for those which are
 not radiologically impacted.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 030 December 5, 2001 Page 2

- 3. Begin documentation and arrangements for appropriate storage, transport and disposal of any hazardous wastes generated during the RCRA sampling.
- 4. Continue to work on the report of the perimeter area radiological drilling program.
- 5. Continue analysis of the TCLP test results and prepare report of the complete laboratory data from these borings.
- 6. Finalize and submit MWRDGC discharge application.
- 7. Contact Commonwealth Edison and AT&T Broadband to resolve utility conflicts.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

Migr#

STS CONSULTANTS, LTD.

Julie Apolinario

Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-McGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

STS Consultants, Ltd.

750 Corporate Woods Parkway Vemon Hills, IL. 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

November 29, 20	וטכ			
Fred Micke/Vern	eta Simon	USEPA		Fax #: 312-353-9176
Timothy Ramsey	·	Piper Marbury R	tudnick & Wolfe	Fax #: 312-630-7350
Harold Holmberg	<u> </u>	. Кел-МсGee		Fax #: 405-270-4112
Mark Krippel/Ber	nie Bono	Kerr-McGee		Fax #: 630-231-3990
Thomas Pabian/	ГеггуМсКау	Capri Capital		Fax #: 312-335-9365
being transmitted	i, incl. Cover:	3		
		Fax No.:		
Julie Apolinario		Phone:	847-279-2500	
341 East Ohio St	reet Site			
t [] For Signature	For Review	Please Comment/Reply	As Requested	Original to Follow
nae:				
	Fred Micke/Vern Timothy Ramsey Harold Holmberg Mark Krippel/Ber Thomas Pabian/ being transmitted Julie Apolinario 341 East Ohio St	Mark Krippel/Bernie Bono Thomas Pabian/TerryMcKay being transmitted, incl. Cover: Julie Apolinario 341 East Ohio Street Site	Fred Micke/Verneta Simon USEPA Timothy Ramsey Piper Marbury R Harold Holmberg Kerr-McGee Mark Krippel/Bernie Bono Kerr-McGee Thomas Pabian/TerryMcKay Capri Capital being transmitted, incl. Cover: 3 Fax No.: Julie Apolinario Phone: 341 East Ohio Street Site	Timothy Ramsey Piper Marbury Rudnick & Wolfe Harold Holmberg Kerr-McGee Mark Krippel/Bernie Bono Kerr-McGee Thomas Pabian/TerryMcKay Capri Capital being transmitted, incl. Cover: 3 Fax No.: Julie Apolinario Phone: 847-279-2500 341 East Ohio Street Site

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STS Consultants, Ltd. Solutions through Science & Engineering

November 29, 2001

Mr. Fred Micke, On-Scene Coordinator
Ms. Verneta Simon, On-Scene Coordinator
U. S. Environmental Protection Agency
Region 5
77 W. Jackson Boulevard, SE-5J
Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 029

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the weeks of November 12 - November 23, 2001 and the work expected during the week of November 26 - November 30, 2001.

Work Completed Last Two Weeks

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- 1. Completed the installation of ten soil borings related to the subsurface investigation of the portion of the site formerly used by Velsicol Chemical Company as a hazardous waste storage facility. Immunoassay field tests showed that eight of the ten boring locations contained elevated pesticide concentrations in at least one 2-foot increment of the boring profile. Several of the boring locations also showed elevated gamma readings for discreet 1 2 foot intervals of the profile. Field indications are that there is partial intersection of the radiological materials and the elevated pesticides. Soil samples from each boring location were sent to the laboratory for analysis. All soil cuttings were handled in accordance with the soil handling protocols described in STS's letter dated November 2, 2001 and were collected and stored on site.
- Obtained laboratory test results for total pesticides from the ten soil borings completed related to the investigation of the former hazardous waste storage facility. Prepared an interim report on the status of pesticide investigation test results to date. This interim report was furnished to USEPA, Kerr-McGee, and Velsicol.
- 3. Met on November 20, 2001 with representatives of Velsicol Chemical Company and TRS to discuss approaches to resolution of the pesticide contamination issue.
- 4. Continued incorporating the remaining three items into the QAPP.
- 5. Continued negotiations with excavation contractor.
- Obtained additional information on costs of dewatering system from potential dewatering subcontractors as necessary to finalize the Excavation Contract.





STS Consultants, Ltd. Solutions through Science & Engineering

November 7, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 024

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of October 29 - November 2, 2001 and the work expected during the week of November 5 - November 9, 2001.

Work Completed Last Week

- 1. Received USEPA approval of the additional sampling of the RCRA hazardous waste location identified on site.
- 2. Continued incorporating the remaining three items into the QAPP.
- 3. Continued negotiations with excavation contractor.
- 4. Completed the perimeter drilling work for borings below 12 feet in depth. Last week, 109 holes were drilled ranging from 8 to 13 feet in depth with 3 obstructions. Various probes have been performed around the perimeter of the obstructed borings. None of the borings since the resumption of the perimeter drilling work have detected elevated gamma readings. In total, 5 shallow borings showed elevated gamma readings: 3 on the southwest side and 2 on the northwest side of the site.
- 5. Contacted the City of Chicago concerning bonding requirements for the excavation contract.
- 6. Visited the site to layout the sampling locations for the additional RCRA hazardous waste sampling.
- 7 Collected and submitted samples for analysis to Grace Laboratory as part of the requirements for the Metropolitan Water Reclamation District of Greater Chicago one-time discharge permit for dewatering.

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U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 024 November 7, 2001 Page 2

Planned for This Week

- 1. Obtain additional information on costs of dewatering system from potential dewatering subcontractors as necessary to finalize the Excavation Contract.
- 2. Continue preparation for the beginning of excavation.
- 3. Continue to investigate the treatment and disposal options (and related costs) for the RCRA hazardous wastes (for pesticides) identified on site, including evaluation of the different options for the hazardous wastes which are radiologically impacted and for those which are not radiologically impacted.
- 4. Commence the additional RCRA hazardous waste sampling.
- 5. Send Nutrani laboratory calibration samples to Argonne for unification. RSSI has completed the gamma spec analysis of these samples.
- Evaluate the potential effect of unauthorized use of the 341 East Ohio site by River East. LLC for helicopter landings and other purposes related to the construction at 316 East Illinois Street owned by River East, LLC.
- 7. Work on the preparation of the report of results of the radiological investigation of the perimeter areas through the subsurface drilling program.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

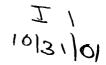
***11!**

STS CONSULTANTS, LTD.

Julie Apolinario

Project Manage

Timothy Ramsey, Piper Marbury Rudnick & Wolfe CC: Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thornas Pabian, Capri Capital Terry McKay, Capri Capital





Solutions through Science & Engineering

October 31, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 022

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of October 22 - October 26, 2001 and the work expected during the week of October 29 - November 2, 2001.

Work Completed Last Week

- 1. Formulated a draft approach to the additional sampling of the RCRA hazardous waste location identified on site. Copies of the approach are being reviewed by USEPA, Kerr-McGee, and others.
- 2. Continued incorporating the remaining three items into the QAPP.
- 3. Continued negotiations with excavation contractor.
- 4. Resumed the perimeter drilling work which had previously been partially completed but was suspended pending City of Chicago Board of Underground approval for borings below 12 feet in depth. Last week, 82 holes were drilled ranging from 10 to 20 feet in depth. The outer row on the north was completed with five obstructions. Drilling in the adjacent rows has been successfully completed. The outer row to the east was completed with four obstructions. The second row to the north was 95% completed. None of the borings have detected elevated gamma readings.
- 5. Submitted a revised utility drawing including the additional requested information to the Chicago Department of Transportation.

- 1. Obtain additional information on costs of dewatering system from potential dewatering subcontractors as necessary to finalize the Excavation Contract.
- 2. Continue preparation for the beginning of excavation.
- 3. Continue to investigate the treatment and disposal options (and related costs) for the RCRA hazardous wastes (for pesticides) identified on site, including evaluation of the different options for the hazardous wastes which are radiologically impacted and for those which are not radiologically impacted.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 022 October 31, 2001 Page 2

- 4. Continue the remainder of the perimeter drilling program with two drill rigs operating. Completion is anticipated at the end of this week.
- 5. Visit the site to layout the sampling locations for the additional RCRA hazardous waste sampling. However, this additional investigation will not be commenced until receipt of USEPA's response to the proposal letter dated October 19, 2001 describing such investigation.
- 6. Collect and submit samples for analysis for Metropolitan Water Reclamation District of Greater Chicago discharge permit for dewatering.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario

Project Manager

Timothy Ramsey, Piper Marbury Rudnick & Wolfe

Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

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September 26, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 011

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of September 17 - September 21, 2001 and the work expected during the week of September 24 - September 28, 2001.

Work Completed Last Week

- 1. Results of the RCRA hazardous waste characterization samples were analyzed and discussed with TRS and Kerr-McGee.
- 2. Submitted to the Chicago Department of Transportation a request for existing utility protection for the excavation.
- 3. The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments were transmitted for approval.
- 4. Finalized office set up; mobilized field laboratory and began calibration.
- 5. Submitted to USEPA a request for assistance to facilitate the utility clearance process at the Chicago Board of Underground and the Chicago Department of Transportation.

- 1. Conduct project training of contractor personnel prior to excavation start-up.
- 2. Further evaluate the results of the RCRA hazardous waste characterization for possible effects on the removal action.

* U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 011 September 26, 2001 Page 2

- 3. Finalize field laboratory equipment calibration.
- 4. Negotiate and finalize the excavation contract.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital



September 19, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 009

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of September 10 - September 14, 2001and the work expected during the week of September 17 - September 21, 2001

Week Completed Last Week

- 1. Responded to contractors' questions concerning the bid document. Received bids from contractors.
- 2. Followed-up on status of Work Plan review by USEPA. Received comments September 12, 2001.
- 3. Results of the RCRA hazardous waste characterization samples were received.
- 4. Kerr-McGee mobilized truck chassis and transport boxes to the site.
- 5. The five meter grid signs were posted.
- 6. Met with Chicago Department of Transportation regarding drilling program and earth retention system. Obtained concurrence to submit to Board of Underground.

Planned for This Week

1. The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments will be transmitted for approval.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 009 September 19, 2001 Page 2

- 2. Evaluate contractor bids.
- 3. Finalize office set up; mobilize field laboratory and begin calibration.
- 4. Conduct project training of contractor personnel prior to excavation start-up.
- 5. Submit retention plan to Board of Underground.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital



September 12, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 007

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of September 4 - September 7, 2001and the work expected during the week of September 10 - September 14, 2001

Week Completed Last Week

- 1. Survey was completed on September 7, 2001.
- 2. Five meter grid signs to delineate the sampling grid were fabricated for the Site.

- 1. The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments will be transmitted for approval.
- 2. Respond to contractors' questions concerning the bid document.
- 3. Follow-up on status of Work Plan review by USEPA.
- 4. Results of the RCRA hazardous waste characterization samples are expected.
- 5. Plan to mobilize truck chassis and transport boxes to the site.
- 6. The five meter grid signs will be posted.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 007 September 12, 2001 Page 2

- 7. Meet with the City of Chicago Department of Transportation concerning Board of Underground approval of the Excavation Plan and the Earth Retention Plan.
- 8. Bids from contractors are due September 14, 2001 at 3:00 p.m.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario

Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thornas Pabian, Capri Capital Terry McKay, Capri Capital

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Date:	September 4, 2001				
To:	Fred Micke/Verneta Simon	USEPA		Fax #: 312-353-9176	
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax #: 312-630-7350	
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112	
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990	_
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365	_
Pages	being transmitted, incl. Cover	: 3			
CC:		Fax No.:			
From:	Julie Apolinario	Phone:	847-279-2500		
Re:	341 East Ohio Street Site				
☐ Urger	nt For Signature For Raview	Please Comment/Reply	As Requested	Original to Follow	
Messa	rge:				

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STS Consultants, Ltd. Solutions through Science & Engineering

September 4, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 006

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of August 27 - August 31, 2001 and the work expected during the week of September 4 - September 7, 2001

Week Completed Last Week

- 1. Completed 54 shallow borings. Demobilized drill rigs pending Board of Underground Clearance for deeper (16 ft) borings.
- 2. Met with the City of Chicago Department of Transportation and furthered the Board of Underground approval/clearance.
- Confidentiality agreements and bid documents were sent out to selected excavation contractors.
- 4. Survey was ordered for completion by September 10, 2001.
- 5. A follow-up meeting with the City of Chicago Department of Transportation regarding Board of Underground approval for the drilling program and excavation plan.
- 6. The Utility Protection Request for Review for the drilling program was submitted to the Board of Underground.
- 7. Inquired of USEPA regarding status of their review of the Work Plan submittal.

Planned for This Week

Commence arrangements for set up of subcontractor's laboratory.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 006 September 4, 2001 Page 2

- 2. The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments will be transmitted for approval.
- 3. Respond to contractors' questions concerning the bid document.
- 4. Follow-up on status of Work Plan review by USEPA.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario Project Manager

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

.

STS Consultants, Ltd.

750 Corporate Woods Parkway Vernon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Date:	August 27, 2001					
To:	Fred Micke/Verne	eta Simon	USEPA		Fax #: 312-353-9176	l
	Timothy Ramsey		Piper Marbury R	udnick & Wolfe	Fex #: 312-630-7350	
	Harold Holmberg		Kerr-McGee		Fax #: 405-270-4112	
	Mark Krippel/Ben	nie Bono	Кел-МcGee		Fax #: 630-231-3990	
	Thomas Pabian/1	ГеггуМсКау	Capri Capital		Fax #: 312-335-9365	
Pages	being transmitted	l, incl. Cover:	3			
CC:			Fax No.:			
From:	Julie Apolinario		Phone:	847-279-2500		
Re:	341 East Ohio St	reet Site				
Urger	nt	For Review	Please Comment/Reply	As Requested	Original to Follow	
Mace	200					

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STS Consultants, Ltd. Solutions through Science & Engineering

August 27, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 003

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of August 20 - August 24, 2001 and the work expected during the week of August 27 - August 31, 2001.

Week Completed Last Week

The RCRA waste characterization sampling and the site perimeter drilling began August 20, 2001. The site was fenced, signs were received and installed, portable restroom facilities delivered, a storage container for secure storage of drill cuttings was delivered, the borings were laid out, and the utility clearance obtained from DIGGER (DIGGER No. 122814305). A total of 112 holes were drilled: All 10 RCRA waste characterization samples and the 102 site perimeter holes. A total of five locations which exceeded cleanup standards were encountered: four on the south margin and one on the north margin.

Planned for This Week

- A meeting is scheduled with Chicago Department of Transportation to coordinate drilling below 12 feet at the east end of the site. That meeting is scheduled for August 29, 2001 at 8:00 a.m.
- 2. Drilling will continue on the north and south margins of the site.
- The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments will be transmitted for approval.

Please contact me at 847-279-2450 with any questions regarding this report.

Sincerely,

STS CONSULTANTS, LTD.

Julie Apolinario
Project Manager

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 003 August 24, 2001 Page 2

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital

STS Consultants, Ltd.

750 Corporate Woods Parkway Varnon Hills, IL 60061 Phone: (847) 279-2500 FAX: (847) 279-2510



FACSIMILE TRANSMISSION

Date:	August 20, 2001			
To:	Fred Micke/Verneta Simon	USEPA	<u>.</u>	Fax #: 312-353-9176
	Timothy Ramsey	Piper Marbury R	udnick & Wolfe	Fax #: 312-630-7350
	Harold Holmberg	Kerr-McGee		Fax #: 405-270-4112
	Mark Krippel/Bernie Bono	Kerr-McGee		Fax #: 630-231-3990
	Thomas Pabian/TerryMcKay	Capri Capital		Fax #: 312-335-9365
Pages	being transmitted, incl. Cover	3	··· •	
CC:		Fax No.:	· · · · · · · · · · · · · · · · · · ·	
From:	Rich Berggreen	Phone:	847-279-2472	
Re:	341 East Ohio Street Site			
Urger	nt For Signature For Review	Please Comment/Reply	As Requested	Original to Follow
Messa	ege:			

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ST\$ Consultants, Ltd. Solutions through Science & Engineering

August 20, 2001

Mr. Fred Micke, On-Scene Coordinator Ms. Verneta Simon, On-Scene Coordinator U. S. Environmental Protection Agency Region 5 77 W. Jackson Boulevard, SE-5J Chicago, Illinois 60604

RE: Weekly Status Report, 341 East Ohio Street Site, Chicago, Illinois - STS Project No. 1-25585-XG, Correspondence No. 002

Dear Mr. Micke and Ms. Simon:

In accordance with the Work Plan for the above-referenced site, STS Consultants, Ltd. (STS) will provide weekly updates of the work completed during the previous week and the work expected to be completed for the upcoming week. This letter presents the work completed during the week of August 13 - August 17, 2001 and the work expected during the week of August 20 - August 24, 2001.

Week Completed Last Week

- 1. STS was advised the week of August 6, 2001 that the Work Plan for the perimeter drilling program was approved. STS confirmed the verbal approval in a conference call on Tuesday, August 14, 2001 with the Office of the Regional Counsel. Written approval was received Friday, August 17, 2001.
- 2. Logistical preparation for beginning the site drilling began last week. The drilling, which includes the RCRA waste characterization sampling and the site perimeter drilling, is scheduled to begin August 20, 2001. The site was fenced, signs were ordered, a storage container for secure storage of drill cuttings was ordered, the borings were laid out, and the utility clearance obtained from DIGGER (DIGGER No. 122814305). A meeting was scheduled with Chicago Department of Transportation to coordinate drilling below 12 feet at the east end of the site. That meeting is schedule for August 29, 2001 at 8:00 a.m.

for This Week

The RCRA waste characterization and perimeter drilling programs will begin gust 20, 2001. Drilling is expected to run for several weeks, depending on the number of drill rigs. A health and safety briefing will be conducted before beginning the work.

U.S. Environmental Protection Agency STS Project No. 1-25585-XG, Correspondence No. 002 August 20, 2001 Page 2 DRAFT

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- 2. Logistical preparations will continue including delivery of the storage container, portable restroom facilities, and Supersacks.
- 3. The Quality Assurance Project Plan (QAPP) revisions in response to USEPA review comments will be transmitted for approval.

Please contact me at 847-279-2472 with any questions regarding this report.

Regards

STS CONSULTANTS, LTD.

Richard G. Berggreen, C.P.G.

7219. Bos-

Principal Geologist

cc: Timothy Ramsey, Piper Marbury Rudnick & Wolfe Harold Holmberg, Kerr-McGee Mark Krippel, Kerr-McGee Bernie Bono, Kerr-MeGee Thomas Pabian, Capri Capital Terry McKay, Capri Capital